

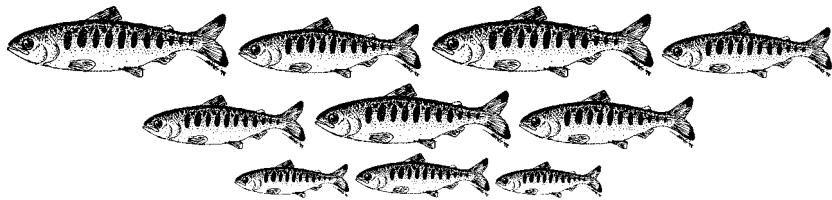
FISHERY RESEARCH



**IDAHO HABITAT AND
NATURAL PRODUCTION MONITORING
PART I**

PROGRESS REPORT

January 1, 1997 – December 31, 1999



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and

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**IDaho HABITAT AND
NATURAL PRODUCTION MONITORING
PART I**

Project Progress Report

1997-1999

By

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ABSTRACT

Approximately 200 stream sections in Idaho were sampled annually from 1997 to 1999 to continue monitoring trends in steelhead trout *Oncorhynchus mykiss* and spring and summer chinook salmon *O. tshawytscha* parr populations. Snake River steelhead trout were listed as threatened in 1997 under the Endangered Species Act. Snake River spring/summer chinook salmon have been listed as threatened since 1992 (excluding the Clearwater River).

Annual average parr densities and densities as a percent of rated carrying capacity (PCC) were estimated between 1985 and 1999 for the following classes of steelhead trout: wild A-run, natural A-run, wild B-run, and natural B-run. Yearling parr densities of steelhead trout in B-channels ranged from 1/100 m² to 10/100 m² and exhibited different patterns among the classes from 1985 through 1999. Estimated PCCs for steelhead trout parr (age $\geq 1^+$ in B- and C-channels) were substantially less than estimated carrying capacity in most classes and years (range 5% to 86%) and generally mirrored the density patterns. Yearling parr densities correlated with estimated wild/natural escapements to Lower Granite Dam for A-run and B-run steelhead trout. Wild/natural steelhead trout parr density decreased in eight of nine generations completed since 1985.

Annual average parr densities and PCCs were estimated between 1985 and 1999 for wild chinook salmon and natural chinook salmon. Age-0+ parr densities of chinook salmon in C-channels ranged from <1/100 m² to 32/100 m² from 1985 through 1999. Estimated PCCs for chinook salmon parr (in B- and C-channels) were substantially less than estimated carrying capacity (range <1% to 28%) and generally mirrored the density patterns. Parr densities correlated with estimated wild/natural escapements to Lower Granite Dam. Wild/natural chinook salmon parr density decreased in eight of ten generations completed since 1985.

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INTRODUCTION

The Idaho Department of Fish and Game (IDFG) has been monitoring trends in juvenile spring and summer chinook salmon *Oncorhynchus tshawytscha* and steelhead trout *O. mykiss* populations in the Salmon, Clearwater, and lower Snake river drainages (Figure 1) for the past 15 years with funding from the Northwest Power Planning Council's (NPPC) Fish and Wildlife Program. The Idaho Natural Production Monitoring and Evaluation Project (1991-07300) has three major components, including long-term general monitoring programs, evaluating habitat enhancement projects, and estimating life-cycle survival. The general monitoring programs provide historical as well as up-to-date information on juvenile salmon and steelhead populations.

This report updates and summarizes data through 1999 for the General Parr Monitoring (GPM) database to document status and trends of classes of wild (indigenous) and natural (hatchery influenced) chinook salmon and steelhead trout populations (Objective 1, General Parr Monitoring Subproject). Estimates of densities and percent carrying capacities were compared between wild and natural populations of both juvenile chinook salmon and juvenile steelhead trout, 1985 through 1999. Relationships of parr density to Snake River escapements were investigated for wild/natural spring/summer chinook and A-run and B-run steelhead trout. Parr density trends were analyzed as progeny:parent ratios for all brood years completed since 1985. In this report, B-run steelhead trout in the Lochsa River drainage were reclassified as wild rather than natural as in previous reports. The reclassification reflected the management style and genetic background of Lochsa River steelhead populations, which were closer to wild (State of Idaho 1997). Wild and natural fish are defined in the IDFG 1992 Anadromous Fish Management Plan as follows: "Wild fish are native fish which have had no history of hatchery or nonnative fish out-planting or supplementation, or a limited amount unlikely to have had a genetic impact. Wild fish sustain themselves as an interbreeding, isolated unit through natural production. Their genetic makeup is assumed to be similar to or evolved from ancestral broodstock by natural selection. Natural fish are the result of natural spawning, but are either not of native broodstock, or have had opportunity to breed with introduced hatchery fish. Genetic material may be different from native broodstock because of these factors." All monitoring streams were prioritized following a plan developed in 1994 which prioritizes sample streams in each management unit to ensure continued sampling of "core" streams (see Methods).

Snake River steelhead trout were listed in 1997 as threatened under the Endangered Species Act (ESA). Snake River spring/summer chinook salmon have been listed as threatened since 1992, with a temporary emergency listing of endangered during 1994 to 1995. The ESA listing for spring/summer chinook pertains to native salmon populations in the Salmon River, Idaho, and the Snake River tributaries in Oregon, Washington, and Idaho; the reintroduced populations in the Clearwater River, Idaho, are not listed.

METHODS

This project has been monitoring parr densities of juvenile chinook salmon and steelhead trout as well as densities of resident species in stream sections within the Salmon, Clearwater, and lower Snake river drainages in Idaho since 1984. Only data from 1985 on are presented in this report because of the small number of stream sections sampled in 1984 (the initial year of the project). The IDFG fisheries research section and regional anadromous

fisheries programs in Regions 2 and 7 and Subregion 3 (McCall) were responsible for collecting the majority of the 1997 to 1999 data. Other cooperating agencies involved in the collection of parr density data for this project are the Shoshone-Bannock Tribes (SBT), the Nez Perce Tribe (NPT), and the U.S. Fish and Wildlife Services' (USFWS) Fishery Resource Office (FRO) in Ahsahka, Idaho. The number of sections monitored annually since 1984 are shown in Table 1.

Prioritization of Streams

In 1994 IDFG developed a sampling scheme for long-term monitoring of parr abundance trends in the face of evolving research, monitoring, and evaluation projects involving several agencies (Leitzinger and Holubetz 1994). Idaho's anadromous fish production streams were prioritized for sampling by GPM project personnel and by IDFG and other cooperating agency research and management projects. The purpose of prioritizing streams was to ensure the long-term integrity of GPM in monitoring trends of anadromous fish populations (Appendix A).

Priority 1 GPM streams receive top priority and must be surveyed every year. Priority 1 streams represent the most important (core) streams that ensure all subbasins, as defined in the IDFG Anadromous Plans (IDFG 1992, 2001), will be sampled. Most of the priority 1 stream sections have been surveyed annually from 1985 to present. Streams given the priority 1 classification are stratified by channel type (B or C), and several representative sections (at least three) per strata are identified and sampled every year. Fish numbers and surface areas are recorded for the entire section, and total fish numbers are reported and analyzed. These represent about half of the GPM streams monitored annually.

Priority 2 GPM streams represent those streams currently being sampled intensively by various other research and management projects and are sampled annually (as long as the project continues) with data provided to the GPM database. The intensive sampling involves monitoring fish densities by habitat unit (compare field data forms in Appendix D, Tables 1 and 2). Two or more priority 2 units (e.g., pools and riffles) must be combined to represent a stream section with multiple habitat types as defined by GPM. Once the objectives have been met by the "intensive monitoring," the stream(s) will be evaluated to determine if they should be reprioritized as a 1, 3, or 4.

Priority 3 GPM streams are considered important production streams, but do not require sampling every year. Sampling priority 3 streams occurs every other year or a minimum of every third year as time allows.

Priority 4 GPM streams are those anadromous streams that either have not been rated as chinook (and in some cases, steelhead) spawning and rearing streams in subbasin plans (e.g., IDFG et al. 1990) or are not significant anadromous fish production streams. Priority 4 streams make up a very small percentage of selected GPM streams and are sampled primarily for regional or resident fish management or research projects (Leitzinger and Holubetz, 1994).

The numbers of anadromous streams sampled annually by IDFG, cooperating agencies, and tribes are as follows:

Priority No.	1997	1998	1999
1	38	38	41
2	10	9	11
3	27	20	24
4	1	1	1
Total Streams	76	68	77

1997-1999 Sampling

Data from individual sections monitored in 1997, 1998, and 1999 are listed in Appendix B, Tables 1, 2, and 3, respectively. Parr density evaluation sections, which were surveyed from 1997 to 1999, are listed in Appendix C, Tables 1, 2, and 3. Copies of field data collection sheets for GPM and Idaho Supplementation Studies (ISS) can be found in Appendix D, Tables 1 and 2, respectively.

Physical Habitat

General parr monitoring sections provide an annual index of anadromous fish abundance in various habitat types and drainages. Monitoring sections are approximately 100 m in length with boundaries occurring at defined breaks between habitat types. Habitat types consist of pools, runs, riffles, glides, and pocket water. A criterion when selecting sites requires that sections should include at least one riffle-slow water (pool, run, or glide) sequence where multiple habitat types are present. Stream strata and sections were cross-referenced to the Environmental Protection Agency's (EPA) stream reach numbering system (NPPC and BPA 1989).

Physical habitat has been measured in each established density monitoring section. The following physical habitat variables were measured in each monitoring section: habitat type (percent pool, riffle, run, pocket water, and glide), substrate composition (percent surface sand, gravel, rubble, boulder, and bedrock), section length, average width, average depth, gradient, conductivity, and channel type (Rosgen 1985). The techniques to collect the physical habitat data are described in Petrosky and Holubetz (1988) and Scully et al. (1990). The data collection form for physical habitat is shown in Appendix D, Table 3. Due to time constraints (parr densities in all anadromous streams in Idaho need to be sampled within a two-month period from late June to late August) and because the physical habitat was relatively stable from year to year, physical habitat variables are generally measured every third year. Length and width measurements, however, are collected every year during sampling to determine section area. The same physical variables were measured in the IDFG supplementation and intensive smolt monitoring projects. The IDFG has encouraged other agencies and tribes to incorporate this standardized variable list into their monitoring programs.

Physical habitat data collected from 1985 through 1999 were summarized by channel type. This variable simultaneously categorizes several morphological characteristics and was used as a primary classifier to investigate juvenile chinook salmon and steelhead trout rearing potential and for density trend comparisons. Scully and Petrosky (1991) demonstrated the effect of channel type on both steelhead trout and chinook salmon parr densities. In a comparison they made of parr densities in B- and C-channels, they found chinook salmon densities 3.5 times higher in C-channels, while steelhead trout densities were two to three times higher in B-channels. B-channels are confined in valleys or canyons and have high enough gradient that most of the fine sediment is flushed out. A significant part of the substrate may be comprised of boulders larger than 30 cm in diameter. C-channels, in contrast, meander through flat alluvial valleys and are characterized by deposition of fine materials and low water velocities. Substrate composition in C-channels has a high percentage of small materials, sand, and gravel. In unstable, heavily managed watersheds, sand may be the predominant substrate type in C-channels. In general, surveyed C-channel sections had gradients less than 1.5%, while B-channel sections had gradients greater than 1.5%.

Parr Density Monitoring

General parr monitoring and intensive monitoring subprojects sampled a total of 203, 204, and 225 sections from 1997 to 1999, respectively, to index the annual abundance of chinook salmon and steelhead trout parr (Table 1). Chinook salmon parr are defined here as age-0+ with lengths less than 10 cm (4 in). Steelhead trout parr are age-1+ and -2+ with respective length of 8-15 cm (3.0-5.9 in) and 15-23 cm (6.0-8.9 in). Steelhead trout length-at-age intervals are similar to those defined by Thurow (1985; 1987). Length data were used to index trends in annual abundance and estimate rearing potential in different habitats.

Most anadromous fish production streams in Idaho are clear and have low conductivity (generally less than 100 micromhos/cm³). Low conductivity decreases the effectiveness of the electrofishing methods to survey parr abundance (i.e., not enough ions to effectively conduct electricity). Relatively high conductivity combined with moderate turbidity (poor visibility) in the Lemhi River makes electrofishing the preferred method in this system. Snorkeling, however, is a more efficient method for collecting parr data in most other Idaho anadromous streams. Snorkel counts potentially underestimate parr abundance, especially at lower temperatures in late summer and fall (Hillman et al 1992). Other comparisons of snorkeling and electrofishing methods did not indicate a negative bias, however (Petrosky and Holubetz 1987; Hankin and Reeves 1988).

Snorkel methods for surveying fish for GPM data are described in Petrosky and Holubetz (1986). All monitoring sections were snorkeled with a team of divers working upstream (except the Lemhi River sections, which were electrofished). Sampling was conducted between late June and late August each year. Crew size ranged from one for small streams to five or more for larger streams. Visibility and stream size determines how many divers are needed to adequately cover a stream section. The general rule is to be able to cover a section from bank to bank in one pass.

This report summarizes parr density and density as a percent of rated carrying capacity (PCC) information for 1997 to 1999. Data for years prior to 1997 were obtained from Rich et al. (1992 and 1993), Rich and Petrosky (1994), Leitzinger and Petrosky (1995), Hall-Griswold et al. (1995), and Hall-Griswold and Petrosky (1996, 1998). Data sheets used for recording snorkel data appear in Appendix D, Tables 1 and 2. The data collection sheets also include the collection of resident fish and amphibian data.

In 1997, 1998, and 1999, the combined programs monitored sections in 76, 68, and 77 streams, respectively. In 1997, 38 of those streams were priority 1, or core streams, representing a variety of stocks, production types (i.e., wild or natural), and habitats. In 1998 and 1999, priority 1 streams totaled 38 and 41, respectively. The other streams surveyed during 1997, 1998, and 1999 were either priority 2 (intensive sampling) or priority 3 (surveyed every other year or every third year). We compared parr densities among all major anadromous fish drainages in Idaho from 1985 through 1999 and summarized chinook salmon and steelhead trout parr densities by year and production type. Due to the preference by steelhead trout for B-channels and chinook salmon for C-channels, parr density comparisons among drainages incorporated only the preferred channel type for each species. We summarized A-run and B-run steelhead trout separately because of large differences in Columbia River harvest rates and escapements between the two runs (TAC 1997).

We also estimated parr density as a percent of carrying capacity (PCC) derived from standardized smolt capacity ratings developed for subbasin planning by the System Planning Group for the NPPC (NPPC 1986). The parr density database was merged with the NPPC species presence/absence database using the common variable EPA reach number. The NPPC file ranks each reach as being poor, fair, good, or excellent habitat for rearing chinook salmon or steelhead trout smolts. Respective NPPC smolt densities (number/100 m²) that correspond to the habitat quality rating are 10, 37, 64, and 90 for chinook salmon and 3, 5, 7, and 10 for steelhead trout. The NPPC smolt density ratings provide a consistent though subjective assessment of habitat quality and smolt carrying capacity within Idaho subbasins.

We adjusted the NPPC smolt density ratings to parr carrying capacity, assuming that excellent steelhead trout habitat would support 20 parr/100 m² and excellent chinook salmon habitat would support 108 parr/100 m² (Petrosky and Holubetz 1988). We also assumed the same relative density proportions between the NPPC habitat classes of poor, fair, good, and excellent. Thus, respective parr carrying capacity ratings for four habitat classes were: 6, 10, 14, and 20/100 m² for steelhead trout and 12, 44, 77, and 108/100 m² for chinook salmon.

Excellent habitat for chinook salmon would be undisturbed C-channel streams, and good habitat would be undisturbed B-channel streams with moderate gradients. High gradient undisturbed B-channels would rate as fair or poor for chinook salmon (Petrosky and Holubetz 1988). For steelhead trout, excellent habitat would be undisturbed B-channels, and good habitat would be undisturbed C-channels. C-channels in productive spring-fed streams could also be classified as excellent steelhead trout rearing habitat. Degraded streams received ratings of good, fair, or poor for both species depending on the degree of disturbance and channel type. Because the different habitat types and quality ratings are considered in the carrying capacity rating system, PCC data from both B- and C-channel sections are analyzed for both species, unlike the analysis for the parr density statistic.

Parr Density Comparisons

Steelhead trout and chinook salmon cells were defined to be consistent with stocks or subbasins identified in IDFG anadromous fish management plans (IDFG 1992, 2001) and the subbasins plans (IDFG et al 1990; NPT and IDFG 1990; WDF et al. 1990). Densities and PCC for 1997 to 1999 were summarized according to these cells.

We compared steelhead trout and chinook salmon parr densities and PCC among classes and years for 1985 through 1999. Steelhead trout classes were wild A-run, wild B-run, natural A-run, and natural B-run. Chinook salmon classes were wild and natural. In order to increase sample size, spring and summer chinook were combined.

Wild (indigenous) steelhead trout populations in Idaho presently occur in the Selway and Lochsa rivers, the lower tributaries of the Clearwater (below the North Fork Clearwater River), in the majority of small Snake River tributaries, the entire Middle Fork and South Fork Salmon rivers, most small mainstem Salmon River tributaries downstream from the mouth of the Middle Fork Salmon, and in Rapid River, a tributary to the Little Salmon River (Figure 2). Areas not listed above were considered for this analysis to have natural (hatchery-influenced) populations.

Wild spring chinook salmon in Idaho presently occur throughout the Middle Fork Salmon River drainage and several Salmon River tributaries below the Middle Fork Salmon River. Wild summer chinook salmon occur in the Secesh River and the Middle Fork Salmon River drainage

(Figure 3). The upper mainstem Salmon River and tributaries, including lower Valley Creek and the lower East Fork Salmon River, also produce wild summer chinook salmon; however, the juveniles observed during GPM surveys in these streams could be either wild summers or natural springs. These and the remainder of Idaho's chinook salmon waters were classified here as natural populations. Due to the small sample size of summer chinook, we combined spring and summer chinook salmon and compared only wild and natural classes.

For steelhead trout, the statistic PCC used the density of age-1+ and age-2+ steelhead trout parr relative to maximum density that could occur in that section. The PCC may be the most appropriate statistic for comparing the relative status of steelhead trout populations, because it incorporates an estimate of the current carrying capacity and is insensitive to assumptions about length-at-age. The PCC statistic also accounts for, in part, differences in channel type, gradient, stream size, and habitat condition (e.g., sediment level). Because the PCC for steelhead trout includes both age-1+ and age-2+ parr, it may mask annual differences resulting from variations in adult escapement between two brood years.

The best index of steelhead trout escapement is probably the age-1+ parr density in B-channels. In underseeded conditions, as occur in most of Idaho's anadromous fish waters, sufficient B-channel habitat exists to support the age-1+ steelhead trout parr. Fewer fish are forced into the less preferred C-channel habitat as a result. In addition, unlike the age-2+ parr, none of the age-1+ cohort would have smolted. However, refinement of the GPM length-at-age classification appears to be necessary to better represent yearling abundance across the range of production streams. Currently, length-at-age information is being analyzed to look at the size differentiation between drainages and production streams (A. Byrne, IDFG, personal communication).

For chinook salmon, both parr density and PCC are for a single age class (age-0+) and brood year. Thus, the best overall index may be PCC rather than density in C-channels, because PCC has a larger sample size, incorporating both B- and C-channel sections. At extremely low escapements, relatively fewer chinook salmon parr and a smaller PCC would be expected in the less preferred B-channel habitat.

Relationship of Parr Density to Escapement

The relationship of steelhead trout parr density to spawning escapement was investigated by regressing annual parr densities against the estimated escapement for that brood year at Lower Granite Dam (LGR), the uppermost dam on the Lower Snake River. Wild/natural escapement estimates for A-run and B-run steelhead trout were provided by the U.S. v. Oregon Technical Advisory Committee (G. Mauser, IDFG, personal communication). Data used for steelhead trout parr were yearling densities in B-channels, 1987 to 1999 (Table 4). A-run steelhead trout yearling densities were averaged for wild and natural classes and regressed against the wild/natural A-run escapement at LGR from two years earlier (1985 to 1997). B-run steelhead trout yearling densities were averaged for wild and natural classes and regressed against the wild/natural B-run escapement at LGR from two years earlier. In addition, a single relationship for the two run types was explored by combining the two data sets and regressing A-run or B-run density against the appropriate A-run or B-run escapement estimate.

The relationship of chinook salmon parr density to spawning escapement was investigated by regressing annual parr densities against the estimated escapement for that

brood year at LGR. Wild/natural escapement estimates for spring/summer chinook salmon were provided by the U.S. v. Oregon Technical Advisory Committee (G. Mauser, IDFG, personal communication). Data used for chinook salmon parr were age-0+ densities in C-channels, 1985 through 1999 (Table 5). Chinook salmon parr densities were averaged for wild and natural classes and regressed against the wild/natural chinook salmon escapement at LGR from one year earlier.

Generational Parr Density Trends

Trends in steelhead trout and chinook salmon parr densities over the generations were investigated in a preliminary analysis for parr density years 1985 through 1999. This is analogous to parent-progeny analyses typically performed for adult spawners and recruits (e.g., NMFS 2000 Biological Opinion). Annual $\ln(\text{progeny}/\text{parent})$ values were calculated as:

$$\ln(\text{Density}_{i+1}/\text{Density}_i)$$

where i = year of parr density in parental generation, and
 t = length of generation.

Generational trend analysis of steelhead trout included the classes wild A-run, natural A-run, wild B-run, natural B-run, and combined. A generation length (t) of 5.5 years was assumed for all steelhead classes. Thus, densities in years $i+5$ and $i+6$ were averaged and divided by densities in year i .

Generational trend analysis of chinook salmon included the classes wild, natural, and combined. A generation length (t) of 4.5 years was assumed for chinook. Thus, densities in years $i+4$ and $i+5$ were averaged and divided by densities in year i .

Database Management

All biological data from 1985 through 1999 have been entered into a Microsoft® Access database for easy access and arrangement for various analyses. The 1985 through 1999 data have been verified for accuracy. These files are available for use by project implementers, tribes, and natural resource agencies upon request. The GPM database is being integrated into the Stream Net database system (Anderson et al. 1996). The Stream Net Distributed System is a PC-based database application containing fully referenced data and a user-friendly interface to query, report, or export the data.

RESULTS AND DISCUSSION

Parr Density Monitoring

Number of streams and sections sampled in 1997, 1998, and 1999 within each class and cell, and average PCC and densities are summarized in Tables 2A, 2B, 2C, 3A, 3B, and 3C. All GPM stream sections surveyed from 1997 to 1999 are listed in Appendix B, Tables 1, 2, and 3, along with channel type, chinook salmon and steelhead trout class, chinook salmon and steelhead trout density, percent carrying capacity, and priority classification.

Steelhead Trout Parr

Densities

Steelhead trout yearling parr densities in B-channels varied among year, class, and cell from 1997 to 1999. The lowest mean densities ($0.03/100\text{ m}^2$) for age-1+ steelhead trout parr in B-channels occurred in 1997 for natural A-run steelhead in the headwaters of the Salmon River (cell 13) and for natural B-run steelhead in the East Fork Salmon River (above the weir) (cell 7) (Table 2A). The highest mean densities were for wild A-run steelhead trout at $15.3/100\text{ m}^2$ in the lower Salmon River tributaries (cell 18) (Table 2B) and at $12.5/100\text{ m}^2$ in the Snake River tributaries (cell 16) (Table 2C) in 1998 and 1999, respectively.

Steelhead trout yearling parr densities in B-channels from 1985 through 1999 averaged from $1/100\text{ m}^2$ to $10/100\text{ m}^2$ and showed different patterns among the classes (Table 4, Figure 4). Wild A-run yearling densities ranged from $4/100\text{ m}^2$ to $10/100\text{ m}^2$ and exhibited a generally declining trend from 1985 through 1999. Wild B-run densities ranged from $1/100\text{ m}^2$ to $3/100\text{ m}^2$ during all years. Densities for natural A- and B-run yearling steelhead trout for the 15-year period ranged from $1/100\text{ m}^2$ to $6/100\text{ m}^2$.

Percent Carrying Capacity

Percent carrying capacity patterns were similar to density patterns of steelhead trout parr from 1997 to 1999. The lowest PCC for steelhead trout parr in B- and C-channels during the three-year period occurred in 1997 for natural A-run steelhead in the headwaters of the Salmon River at 0.25% (cell 13), and for natural B-run steelhead in the East Fork Salmon River (above the weir) at 0.11% (cell 7) (Table 2A). The highest PCC were calculated for wild A-run steelhead trout in the lower Salmon River tributaries (102%, cell 18) (Table 2B) and in the Snake River tributaries (93%, cell 16) (Table 2C) in 1998 and 1999, respectively.

Most populations of steelhead trout parr were well below the estimated carrying capacity in most years. Steelhead trout parr densities in B- and C-channels from 1985 through 1999 ranged from 5% to 86% of rated carrying capacity and showed different patterns among cells and classes (Table 4, Figure 5). In 1999, wild A- and B-run steelhead trout and natural B-run steelhead populations declined from the 1998 estimations, averaging 30%, 13%, and 5%, respectively, of carrying capacity.

Chinook Salmon Parr

Densities

Densities of spring and summer chinook salmon parr in C-channels are listed in Tables 3A, 3B, and 3C. The highest mean density for age-0+ wild chinook salmon parr from 1997 to 1999 occurred in 1998 in the Salmon River canyon and tributaries (including Chamberlain Cr.) (cell 2) at $24.3/100\text{ m}^2$ (Table 3B). The highest mean density for age-0+ natural chinook salmon parr during the three-year period also occurred in 1998, in the South Fork Clearwater River (cell 12) at $46.1/100\text{ m}^2$. Lowest mean densities for age-0+ wild chinook salmon parr occurred in 1997 in Bear Valley and Elk creeks ($0.01/100\text{ m}^2$) (cell 3) (Table 3A). In addition, in 1997, densities for age-0+ natural chinook salmon parr in C-channels were lowest in

the headwaters of the Salmon River (cell 11), in the mainstem Clearwater River and tributaries (including Lolo Cr.) (cell 15) (Table 3A), and in 1999 in the Lochsa River (cell 13) (Table 3C) at 0.00/100 m².

Since 1985, wild spring and summer chinook age-0+ salmon parr densities have ranged from 0.01/100 m² to 23.9/100 m². Densities for natural spring and summer chinook age-0+ salmon parr during the past 15 years have ranged from 0.4/100 m² to 32.5/100 m² (Table 5, Figure 6). In 1999, densities of wild spring and summer chinook salmon parr exceeded the 15-year average, while natural spring and summer chinook salmon parr densities declined.

Percent Carrying Capacity

Percent carrying capacity estimates paralleled density estimates for both classes of chinook salmon parr in 1997, 1998, and 1999. All populations of chinook salmon parr remained well below the estimated carrying capacities. The highest mean PCC during the three-year period for age-0+ wild chinook salmon parr in B- and C-channels occurred in 1998 in the Salmon River canyon and tributaries (including Chamberlain Cr.) (cell 2) at 14.5% (Table 3B). The highest average PCC for age-0+ natural chinook salmon parr for the same period also occurred in 1998, in the South Fork Clearwater River (cell 12) at 45%. Lowest mean PCC estimates for age-0+ wild chinook salmon parr in B- and C-channels occurred in 1997 in Bear Valley and Elk creeks (0.03%) (cell 3) (Table 3A). In addition, in 1997, PCC for age-0+ natural chinook salmon parr in B- and C-channels were lowest for the three-year period in the Lemhi River (cell 9) at 0.05% (Table 3A).

Age-0+ chinook salmon parr in B- and C-channels displayed wide fluctuations in PCC for the past 15 years. Wild spring and summer chinook densities ranged from 0.07% to 15.0% of rated carrying capacity from 1985 through 1999 (Table 5) (Figure 7). The densities for natural spring and summer chinook salmon parr ranged from 0.4% to 28% of rated carrying capacity during the same time period. Wild spring and summer chinook salmon parr exceeded the 15-year average in 1999, but natural spring and summer chinook salmon parr fell below average. Out of the last five years (the length of the chinook life cycle) only one year class of wild spring and summer chinook showed even moderate strength (1998 brood year or 1999 parr).

Relationship of Parr Density to Escapement

Steelhead Trout Parr

Average A-run and B-run steelhead trout parr densities in 1987 to 1999 correlated with their respective estimated escapements to LGR for run years 1985 through 1997 (Figures 8a, 8b, and 8c). Yearling steelhead trout densities in B-channels ranged from 2.7/100 m² to 7.5/100 m² for wild/natural A-run steelhead and 0.9/100 m² to 4.1/100 m² for wild/natural B-run steelhead. Estimated wild/natural steelhead run size to LGR ranged from 4,800 to 20,100 for A-run, 1,300 to 8,900 for B-run, and 7,400 to 26,700 for combined runs. In comparison, wild steelhead run size to the uppermost dam in the 1960s ranged from 45,000 to 108,200. Within the range of recently observed escapements, steelhead trout parr density in B-channels increased with increasing escapements for A-run ($r^2 = 0.45$; $P = 0.012$) and B-run ($r^2 = 0.41$; $P = 0.018$) (Figures 8a, 8b). For similar escapements, the observed parr densities were similar between A-run and B-run steelhead trout (Fig. 8c).

U.S. v. Oregon escapement goals of 10,000 for B-run and 20,000 for A-run wild/natural steelhead trout were approached occasionally during run years 1985 through 1997, apparently without reaching parr carrying capacity for either aggregate run (Figures 8a and 8b). The similarity in parr response to escapement between A-run and B-run steelhead trout and the regression for combined runs ($r^2 = 0.63$; $P<0.001$) suggest that B-run steelhead trout parr densities would likely increase at escapement levels above those observed in this time series. That is, we have no strong biological reason to suspect yearling parr carrying capacity would be inherently lower for B-run than for A-run steelhead trout, and densities continued to increase for A-run steelhead trout at escapements greater than 9,000. Future monitoring of parr response to increased escapements will help define aggregate escapement objectives for wild/natural Snake River A-run and B-run steelhead trout.

Chinook Salmon Parr

Average chinook salmon parr density from 1985 through 1999 correlated with the estimated escapement to LGR of wild spring/summer chinook salmon the previous year (Figure 9). Average parr density in C-channels (wild and natural combined) ranged from less than $1/100 \text{ m}^2$ to $23/100 \text{ m}^2$ from 1985 through 1999. Estimated run size of wild/natural spring/summer chinook salmon to LGR ranged from 1,100 to 12,400 from 1984 to 1998. In comparison, wild spring/summer chinook salmon run size to the uppermost dam in the 1960s ranged from 21,900 to 63,700. Within the range of recently observed escapements, chinook salmon parr density increased with increasing escapements ($r^2 = 0.54$; $P = 0.002$). Parr density in 1993 was noticeably lower than predicted from the regression.

Similar to steelhead trout, the aggregate chinook salmon parr density response gave no indication of approaching carrying capacity over the range of observed escapements. Future monitoring of parr response to increased escapements will help define aggregate escapement objectives for wild/natural chinook salmon.

Generational Parr Density Trends

Steelhead Trout Parr

Wild/natural steelhead trout parr density decreased in eight of nine generations from 1985 to 1993 (Figure 10) for combined A-run and B-run. Generation time in this preliminary analysis was assumed to be 5.5 years for all populations. All groupings had average $\ln(\text{progeny:parent})$ ratios less than replacement, and only wild B-run showed more than two years with positive population growth. However, wild B-run steelhead trout also exhibited the lowest densities and PCCs (Table 4, Fig. 4). The average values of $\ln[(\text{Density}_{i+5.5})/(\text{Density}_i)]$ for wild A-run, natural A-run, wild B-run, natural B-run, and combined were -0.32, -0.68, -0.05, -0.61, and -0.45, respectively, all less than replacement.

Populations cannot persist in the long term if abundance declines over generations, indicated by progeny:parent ratios less than 1.0. The NMFS (2000) Biological Opinion on the Federal Columbia River Power System emphasizes the metric lambda (λ), which is the progeny:parent ratio expressed on an annual, rather than generational, basis (Leslie matrix method). Similarly, populations cannot persist in the long term when annual population growth

rates (λ) are less than 1.0. On average, the parr density in the progeny generation was only 64% ($e^{-0.45}$) of that in the parent generation for Idaho steelhead from 1985 to 1993. This progeny:parent ratio (0.64) would approximate a λ value of 0.92 (i.e., $0.64^{5.5}$) from the NMFS (2000) Leslie matrix approach.

Several strengths and weaknesses of the preliminary density trend analysis are apparent for steelhead trout. The GPM parr data provide a time series with considerable spatial structure to evaluate population trends within the Snake River steelhead Evolutionary Significant Unit. Sampling in the parr life stage avoids numerous logistic difficulties inherent in sampling adults or smolts for individual populations of steelhead trout. In addition, because many populations have negligible hatchery influence, trends in these wild areas are unaffected by uncertainties about the relative effectiveness of hatchery spawners that confounds analyses of aggregate or supplemented populations. Recent parr densities have indicated heterogeneity between populations within the classes analyzed, such as the noticeably lower densities in the upper Salmon River (Tables 2A, 2B, and 2C). The current assumption of a 5.5-year generation length for all populations will be revised in the future with population-specific information on juvenile age and growth and ocean age considerations (e.g., B-run tend toward longer ocean residence than A-run). Finally, presence of resident rainbow/steelhead trout may positively bias the trend analyses for anadromous steelhead trout. For example, as the anadromous life history component dwindles, resident rainbow/steelhead trout densities become relatively more influential in both the numerator and denominator, making the progeny:parent ratio appear closer to replacement (1.0). Generational trends should be considered in the context of other information such as observed parr densities and parr density responses to increasing escapements.

Chinook Salmon Parr

Chinook salmon parr density decreased in eight of ten generations from 1985 to 1994 (Figure 11). Generation time in this analysis was assumed to be 4.5 years. Patterns were similar for wild chinook salmon and natural chinook salmon. The average value of $\ln[(\text{Density}_{i+4.5})/(\text{Density}_i)]$ was -0.82 , or less than replacement.

Populations cannot persist in the long term if abundance declines over generations, indicated by progeny:parent ratios or λ less than 1.0. On average, the parr density in the progeny generation was only 44% ($e^{-0.82}$) of that in the parent generation for Idaho spring/summer chinook from 1985 to 1994. This progeny:parent ratio would approximate a λ value of 0.83 (i.e., $0.44^{4.5}$) from the NMFS (2000) Leslie matrix approach. Progeny:parent ratios were also highly variable for Idaho chinook from 1985 to 1994 (Figure 11), another indicator of risk to population persistence.

Strengths and weaknesses of the preliminary density trend analysis for chinook salmon are similar to those for steelhead trout described above. However, sampling adult or smolt life stages for chinook salmon is less problematic than for steelhead trout. In addition, the juvenile life history of chinook salmon is less complex than for steelhead trout (nearly all smolt as yearlings), and lacks a resident parr life-history component (except for precocious yearlings, which are readily distinguished from age-0+ parr in the surveys).

FUTURE DIRECTION AND RECOMMENDATIONS

The GPM database was initially developed based on project-specific data needs (i.e., evaluating habitat improvements), with overall monitoring being a secondary priority. Since these project-specific evaluations have been completed for the most part, overall monitoring has become the top priority. An overall GPM sampling design was developed (Leitzinger and Holubetz, 1994) for implementation in 1995 and future years (Appendix A). The plan was designed to provide coverage for stocks and geographic areas defined in the IDFG Anadromous Fish Management Plan (IDFG 1992). The sampling scheme prioritizes GPM streams based on stock, geographic area, habitat type, and channel type, so that all subbasins are adequately sampled.

Steelhead trout have a complex life cycle, which varies among geographic location, type, and habitat (Scott and Crossman, 1973). Length-at-age is difficult to generalize over broad geographic areas, such as streams throughout Idaho, because of this variation. When the GPM project began in 1984, a length-at-age classification was developed that defined ranges for age-0+ steelhead at less than 74.0 mm, age-1+ from 74.0 to 151.9 mm, and age-2+ from 152.0 to 227.9 mm (Petrosky and Holubetz, 1985). This classification was based on steelhead length-at-age data from the Middle Fork and South Fork Salmon rivers (Thurrow 1985, 1987). This length-at-age classification currently encompasses all classes of steelhead trout in the Snake, Salmon, and Clearwater river drainages in the existing GPM database.

There has been some concern among the GPM cooperators that the length-at-age breakdown for steelhead trout overestimates age-1+ parr density and underestimates age-2+ parr density. Therefore, length classes should be reviewed and revised as needed in the GPM database for different populations, geographic areas, and elevations to account for different growth rate patterns. Age misclassification could bias age-1+ and age-2+ steelhead density estimates, analyses of brood year strength, and life stage survival rate estimates. However, the steelhead trout PCC statistic would be relatively insensitive to age misclassification.

With 15 years of data from the GPM project and other projects such as Idaho Supplementation Studies (ISS), Steelhead Supplementation Studies (SSS) and Intensive Smolt Monitoring (ISM), data have been collected which may help refine the length-at-age of steelhead trout for specific populations and geographic areas (Table 6). The elevation and thermal regime of a stream reach, for instance, may largely control the growth rate, with lower elevation streams producing larger parr and younger smolts (C. Huntington, Clearwater BioStudies, Inc., personal communication). Also, because parr may continue to grow an estimated 9 mm per month (Everest 1969), the timing of a survey, combined with the existing classification, may bias estimates of the number of smolts (i.e., a steelhead trout parr observed in the upper Salmon River in July and falling in the age-1+ category may out-migrate that fall classified as age-2+) (R. Kiefer, IDFG, personal communication). Until 1999, historical parr density data were entered by three-inch increments into the GPM database; however, data had been collected by one-inch increments (Appendix D, Tables 1 and 2). The historical data has been re-entered into the GPM database by one-inch increments. This combined with length-at-age information collected from steelhead throughout Idaho will provide the flexibility needed to better represent steelhead trout age structure for specific drainages. Length-at-age estimates will be completed in 2001 (A. Byrne, IDFG, personal communication).

The plans for the Idaho Natural Production Monitoring Program are to incorporate into the GPM database the data from the intensive studies now being conducted, namely ISS, SSS,

and Wild Steelhead Studies (WSS). Additional data from the U.S. Forest Service (USFS) or other entities may be included if appropriate. This will greatly increase our sample size in most stream classes and cells as well as our ability to more accurately assess population status of chinook salmon and steelhead trout parr in Idaho.

Table 7 summarizes the number of cells sampled in each anadromous fish class in Idaho, the number of streams sampled, and the number of GPM sites by channel type sampled from 1997 to 1999. It also lists the number of streams being sampled intensively and the number of those that do and do not already contain GPM sites.

By incorporating the intensive data from 1997, 1998, and 1999 into the GPM database, we would add data from 76, 67, and 75 streams, respectively. There would be 60 to 66 new streams added each year that are not presently in the database and additional sites in 7 to 12 streams. The number of sites sampled in each of these intensive streams is not summarized at this point, but it ranges from roughly 12 to 50 per stream.

Databases and programs to summarize the data are currently being developed for these intensive data independently from the existing GPM database. Work has begun to link the various databases so that the intensive data can be incorporated into the GPM data. In addition, these databases will be linked to Stream Net to facilitate information exchange. In 2001, all GPM data will be entered into this new application. The collection of GPS coordinates now and in the future will be necessary to link the GPM database to Stream Net.

The GPM database was established 15 years ago and has become one of the most complete and comprehensive salmon databases in Idaho, containing information on more than 150 streams in the Salmon, Clearwater, and lower Snake River drainages (Figure 1). To date, approximately 6,500 records exist in the database. In the interest of efficiency, some of the data collection for GPM sites is performed by the salmon and steelhead supplementation studies, regional fisheries research biologists and managers, the USFWS FRO, NPT, and SBT. This project maintains the integrity of the database (both biological and physical habitat), completes data analysis and report writing, compiles the statewide collection of the data, and fills data requests for outside agencies, consulting firms, universities, and within the IDFG. Recently, the GPM database has been joined with a comprehensive watershed database (U.S. Forest Service Interior Columbia Basin Ecosystem Management Plan) to compare fish densities with elevation, gradient, and specific watershed use variables. Long-term management of this database will result in providing on-line access to fish density information found in the GPM. This will provide readily available information to many more user groups and will be a very valuable resource due to the long-term monitoring by this database.

In addition to juvenile salmon and steelhead, the GPM database also includes important biological and physical habitat information. Densities are collected on the following resident fish: rainbow trout *O. mykiss*, westslope cutthroat *O. clarki*, brook trout *Salvelinus fontinalis*, bull trout *S. confluentus*, and mountain whitefish *Prosopium williamsoni*, and on incidental species such as dace *Rhinichthys* sp., sucker *Catostomus* sp., sculpin *Cottus* sp., and amphibians. With the bull trout listing and the proposed cutthroat listing, this information has already provided a valuable resource for agencies like the IDFG, the Bureau of Land Management, the Department of Environmental Quality, Idaho Power, the USFS (including the Intermountain Research Station), and other agencies working on recovery of these species. Due to the number of data requests (90 since 1999), the database can serve as an even greater tool to regional wildlife and habitat managers if other project data are incorporated in the database. Examples of appropriate additions would be data generated by the ISS, SSS, and WSS. Additional data from

the USFS or other entities may be included if appropriate. The purpose of this will be to greatly increase our sample size in most stream classes and cells, as well as our ability to more accurately assess population status of chinook salmon and steelhead trout parr in Idaho.

Physical habitat information has been collected at least once since 1984 in each established density monitoring section. Important stream variables such as temperature, stream width, channelization, channel type, gradient, and substrate composition are measured and kept in a long-term database linked to the chinook and steelhead parr database (GPM). The fish density and physical habitat information (e.g., gradient) can be used in conjunction with other watershed characteristics to quantify population responses at varying elevations and watershed specific variables.

The primary strength and use of the GPM database to date has been for density trend monitoring using repeated annual sampling in selected sections and streams. The GPM sites were often selected subjectively due to logistics (i.e., need for long-term repeated sampling), which may limit the spatial inferences described above. However, parr monitoring sections for the Idaho intensive monitoring projects (ISS, SSS, WSS) were selected within stratified random designs. Comparison of GPM parr densities with those from probabilistic sampling would provide a test of how accurately GPM sections represent the overall population densities in these streams. Fish and Wildlife Program project review in 2001 by the Independent Scientific Review Panel (ISRP) has also identified a need for development of a long-term Columbia Basin probabilistic sampling plan for monitoring anadromous fishes, resident fishes, water quality, and other habitat quality parameters. The ISRP recommended integration of a probabilistic sampling design to allow statistical inferences to be made to the entire Snake River basin, other Idaho subbasins, and individual important watersheds, while maintaining the ability to monitor long-term parr density trends.

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Table 1. Number of sections where steelhead trout and chinook salmon parr were monitored in Idaho by BPA project 91-73 and other research and management programs, as well as other agencies and tribes from 1984 through 1999.

Year	Number Of Steelhead Trout Sections	Number Of Chinook Salmon Sections^a
1984	60	37
1985	184	139
1986	190	156
1987	225	178
1988	225	175
1989	268	216
1990	349	243
1991	315	241
1992	334	241
1993	401	377
1994	333	329
1995	281	272
1996	238	223
1997	214	196
1998	201	195
1999	217	216

^a Chinook salmon sections are a subset of the steelhead trout sections.

Table 2A. Average percent carrying capacity (PCC) for age-1+ and -2+ steelhead trout in all monitoring sections (B- and C-channels) and densities (number/100 m²) of age-1+ steelhead trout parr in B-channels, 1997.

Class Cell	Average PCC	No. Sites	No. Streams	Average age-1+		No. Sites	No. Streams
				Density in B- Channels			
<u>Wild B-run</u>							
1. Selway R	11.48	26	13	1.31		23	13
2. Middle Fk Salmon R	2.27	37	12	0.40		10	7
3. South Fk Salmon R	9.23	22	6	1.25		13	4
Lochsa R	13.63	17	7	0.82		16	7
<u>Natural B-run</u>							
5. South Fk Clearwater R	7.13	33	8	0.89		14	5
6. Mainstem Clearwater & trib (Lolo Cr)	9.16	6	2	0.97		4	2
7. East Fork Salmon R (above weir)	0.11	3	1	0.03		2	1
<u>Natural A-run</u>							
8. Little Salmon R	27.18	4	1	3.71		4	1
9. Lower Salmon R	No sites sampled	—	—	No sites sampled		—	—
10. Upper Salmon R	8.76	22	9	1.10		15	9
11. Pahsimeroi R	No sites sampled	—	—	No sites sampled		—	—
12. Lemhi R	7.10	8	4	0.04		3	2
13. Headwaters Salmon R	0.25	10	1	0.03		5	1
14. Snake R trib (Granite Cr)	27.12	2	1	2.78		2	1
<u>Wild A-run</u>							
15. Salmon Canyon trib	11.68	8	4	1.51		6	4
16. Snake R trib (Sheep Cr)	50.69	2	1	4.60		2	1
17. Mainstem Clearwater R trib	19.91	2	1	2.57		2	1
18. Lower Salmon R trib	76.25	5	3	11.09		5	3
19. Rapid R (above weir)	12.73	7	2	1.45		7	2

Table 2B. Average percent carrying capacity (PCC) for age-1+ and -2+ steelhead trout in all monitoring sections (B- and C-channels) and densities (number/100 m²) of age-1+ steelhead trout parr in B-channels, 1998.

Class Cell	Average PCC	No. Sites	No. Streams	Average age-1+		No. Sites	No. Streams
				Density in B- Channels			
<u>Wild B-run</u>							
1. Selway R	14.42	20	12	1.47		19	12
2. Middle Fk Salmon R	7.31	33	11	1.43		11	6
3. South Fk Salmon R	14.25	29	5	1.99		18	4
4. Lochsa R	31.11	15	7	3.17		15	7
<u>Natural B-run</u>							
5. South Fk Clearwater R	7.36	42	8	1.17		23	6
6. Mainstem Clearwater & trib (Lolo Cr)	8.14	9	2	0.47		5	2
7. East Fork Salmon R (above weir)	0.33	2	1	0.00		1	1
<u>Natural A-run</u>							
8. Little Salmon R	36.04	2	1	4.98		2	1
9. Lower Salmon R	No sites sampled	—	—	No sites sampled		—	—
10. Upper Salmon R	29.18	9	4	2.32		5	4
11. Pahsimeroi R	No sites sampled	—	—	No sites sampled		—	—
12. Lemhi R	34.03	6	4	0.70		3	2
13. Headwaters Salmon R	1.25	10	2	0.07		5	1
14. Snake R trib (Granite Cr)	36.67	2	1	4.00		2	1
<u>Wild A-run</u>							
15. Salmon Canyon trib	20.21	8	4	3.25		6	4
16. Snake R trib (Sheep Cr)	60.45	2	1	6.09		2	1
17. Mainstem Clearwater R trib	No sites sampled	—	—	No sites sampled		—	—
18. Lower Salmon R trib	101.66	5	3	15.32		5	3
19. Rapid R (above weir)	27.18	7	2	3.18		7	2

Table 2C. Average percent carrying capacity (PCC) for age-1+ and -2+ steelhead trout in all monitoring sections (B- and C-channels) and densities (number/100 m²) of age-1+ steelhead trout parr in B-channels, 1999.

Class Cell	Average PCC	No. Sites	No. Streams	Average age-1+		No. Sites	No. Streams
				Density in B- Channels	No. B- Channels		
<u>Wild B-run</u>							
1. Selway R	9.34	21	10	1.21	1	18	10
2. Middle Fk Salmon R	5.58	38	11	0.88	1	10	6
3. South Fk Salmon R	20.94	29	8	2.41	11	17	4
4. Lochsa R	24.14	14	7	2.34	1	13	7
<u>Natural B-run</u>							
5. South Fk Clearwater R	4.75	35	9	0.99	1	18	6
6. Mainstem Clearwater & trib (Lolo Cr)	36.00	1	1	3.60	1	1	1
7. East Fork Salmon R (above weir)	0.48	4	1	0.19	1	2	1
<u>Natural A-run</u>							
8. Little Salmon R	46.91	5	2	5.19	1	5	2
9. Lower Salmon R	30.22	7	2	4.47	1	7	2
10. Upper Salmon R	26.50	20	8	2.69	1	13	8
11. Pahsimeroi R	18.15	3	1	No B-channel		—	—
12. Lemhi R	23.34	8	4	0.54	1	3	2
13. Headwaters Salmon R	0.79	6	2	0.05	1	4	1
14. Snake R trib (Granite Cr)	67.04	2	1	9.19	1	2	1
<u>Wild A-run</u>							
15. Salmon Canyon trib	23.44	8	4	3.74	1	6	4
16. Snake R trib (Sheep Cr)	92.86	2	1	12.52	1	2	1
17. Mainstem Clearwater R trib	6.42	2	1	1.05	1	2	1
18. Lower Salmon R trib	32.77	5	3	4.74	1	5	3
19. Rapid R (above weir)	23.34	7	2	2.08	1	7	2

Table 3A. Average percent carrying capacity (PCC) for chinook parr in all monitoring sections (B- and C-channels) and densities (number/100 m²) of chinook salmon parr in C-channels, 1997.

Class Cell	Average PCC	No. Sites	No. Streams	Average age-0+ Density in B Channels			No. Sites	No. Streams
<u>Streams Wild Spring</u>								
1. Middle Fk Salmon R (w/o Bear Valley/ Elk Cr)	1.41	21	9	2.34			12	7
2. Salmon R Canyon & trib (Chamberlain Cr)	0.00	4	2	No C-channel			—	—
3. Bear Valley/Elk Cr	0.03	13	3	0.01			13	3
4. Snake R trib (Granite/Sheep Cr)	0.00	4	2	No C-channel			—	—
19. Lower Salmon R	0.00	5	3	No C-channel			—	—
<u>Wild Summer</u>								
5. Secesh R	0.00	1	1	No C-channel			--	--
6. Middle Fk Salmon R	No sites sampled	—	—	No sites sampled			—	—
7. Upper Salmon R (Middle Fk to Redfish Lk Cr and East Fk mouth to weir)	0.04	1	1	No C-channel			—	--
<u>Natural Spring</u>								
8. Little Salmon R	5.21	4	1	No C-channel			—	—
9. Lemhi R	0.05	8	4	0.09			5	3
10. Upper Salmon R	0.44	22	9	0.22			8	5
11. Headwaters Salmon R	0.09	7	1	0.00			3	1
12. South Fk Clearwater R	3.10 ^a	33	8	3.00			19	6
13. Lochsa R	0.11	17	7	0.17			1	1
14. Selway R	0.17	24	12	0.89			2	1
15. Mainstem Clearwater R & trib (Lolo Cr)	0.30	8	3	0.00			2	1
<u>Natural Summer</u>								
16. Rapid R	0.00	7	2	No C-channel			—	0.00
17. South Fk Salmon R	0.38	17	4	0.18			7	3
18. Pahsimeroi R	No sites sampled	—	—	No sites sampled			—	—

^a Includes the ponds on Crooked River

Table 3B. Average percent carrying capacity (PCC) for chinook parr in all monitoring sections (B- and C-channels) and densities (number/100 m²) of chinook salmon parr in C-channels, 1998.

Class Cell	Average PCC	No. Sites	No. Streams	Average age-0+ Density in B Channels		No. Sites	No. Streams
<u>Streams Wild Spring</u>							
1. Middle Fk Salmon R (w/o Bear Valley/ Elk Cr)	5.54	20	8	4.55		9	5
2. Salmon R Canyon & trib (Chamberlain Cr)	14.57	8	4	24.26		2	2
3. Bear Valley/Elk Cr	3.56	9	2	2.30		9	2
4. Snake R trib (Granite/Sheep Cr)	7.33	4	2	No C-channel		—	—
19. Lower Salmon R	0.10	5	3	No C-channel		—	—
<u>Wild Summer</u>							
5. Secesh R	0.24	2	1	No C-channel		—	—
6. Middle Fk Salmon R	No sites sampled		No sites sampled			—	—
7. Upper Salmon R (Middle Fk to Redfish Lk Cr and East Fk mouth to weir)	3.39	1	1	No C-channel		—	—
<u>Natural Spring</u>							
8. Little Salmon R	0.41	2	1	No C-channel		—	—
9. Lemhi R	5.46	6	4	5.77		3	2
10. Upper Salmon R	5.43	10	4	2.81		5	3
11. Headwaters Salmon R	4.02	10	2	1.91		5	2
12. South Fk Clearwater R	45.34 ^a	42	8	46.13		19	4
13. Lochsa R	4.05	15	7	No C-channel		—	—
14. Selway R	7.69	18	11	No C-channel		—	—
15. Mainstem Clearwater & trib (Lolo Cr)	21.39	9	2	15.62		4	2
<u>Natural Summer</u>							
16. Rapid R	0.35	7	2	No C-channel		—	—
17. South Fk Salmon R	35.11	27	4	16.01		11	3
18. Pahsimeroi R	No sites sampled		—	No sites sampled		—	—

^a Includes the ponds on Crooked River

Table 3C. Average percent carrying capacity (PCC) for chinook parr in all monitoring sections (B- and C-channels) and densities (number/100 m²) of chinook salmon parr in C-channels, 1999.

Class Cell	Streams	Average PCC	No. Sites	No. Streams	Average age-0+ Density in B Channels		
					No. Sites	No. Streams	
<u>Wild Spring</u>							
1. Middle Fk Salmon R (w/o Bear Valley/ Elk Cr)		14.00	32	9	13.21	22	9
2. Salmon R Canyon & trib (Chamberlain Cr)		1.84	8	4	1.16	2	2
3. Bear Valley/Elk Cr		11.02	5	1	8.48	5	1
4. Snake R trib (Granite/Sheep Cr)		0.00	4	2	No C-channel	—	—
19. Lower Salmon R		3.58	12	5	No C-channel	—	—
<u>Wild Summer</u>							
5. Secesh R		7.71	4	2	16.66	2	1
6. Middle Fk Salmon R		No sites sampled	—	—	No sites sampled	—	—
7. Upper Salmon R (Middle Fk to Redfish Lk Cr and East Fk mouth to weir)		0.55	1	1	No C-channel	—	—
<u>Natural Spring</u>							
8. Little Salmon R		0.68	5	2	No C-channel	—	—
9. Lemhi R		0.45	8	4	0.41	5	3
10. Upper Salmon R		6.61	23	8	6.20	9	5
11. Headwaters Salmon R		1.65	6	2	0.49	2	2
12. South Fk Clearwater R		27.91 ^a	37	9	25.09	17	5
13. Lochsa R		0.14	14	7	0.00	1	1
14. Selway R		0.52	19	9	2.33	2	1
15. Mainstem Clearwater R & trib (Lolo Cr)		0.00	3	2	No C-channel	—	—
<u>Natural Summer</u>							
16. Rapid R		0.23	7	2	No C-channel	—	—
17. South Fk Salmon R		16.58	25	5	7.71	10	4
18. Pahsimeroi R		2.57	3	1	1.98	3	1

^a Includes the ponds on Crooked River.

Table 4. Mean percent of rated carrying capacity (PCC) of age-1+ and age-2+ steelhead trout parr in B- and C-channels, and density of age-1+ steelhead trout parr in B-channels, by class and year, 1985 through 1999. (Note: in 1997, steelhead in the Lochsa River drainage were reclassified as wild B-run. Historical records have been changed and recalculated from 1985 through 1999).

Year	1+ and 2+ Sthd PCC (by Class ^a)				1+ Sthd B-channel Density (by Class)			
	WA	WB	NA	NB	WA	WB	NA	NB
1985	71	9	30	13	5.9	1.7	4.6	0.9
1986	86	11	40	48	9.9	1.5	6.4	6.4
1987	77	9	36	60	7.6	0.9	3.8	5.7
1988	79	17	31	43	10.0	2.6	4.9	5.5
1989	64	13	25	24	8.4	2.3	3.3	2.3
1990	51	22	23	25	4.6	3.2	3.7	2.9
1991	54	13	14	27	6.1	1.9	2.4	2.8
1992	36	15	16	37	4.6	2.9	2.7	4.2
1993	41	13	11	12	4.5	1.6	1.6	1.8
1994	40	17	12	14	5.3	2.8	1.3	1.4
1995	32	16	8	18	4.5	2.2	1.2	2.1
1996	17	11	13	11	4.0	1.3	1.7	1.3
1997	29	8	9	7	4.0	1.0	1.3	0.8
1998	45	15	22	7	6.5	2.0	1.9	1.0
1999	30	13	27	5	4.0	1.8	3.3	1.0
Mean	50.1	13.5	21.1	23.4	6.0	2.0	2.9	2.7
SD of Annual Means	21.0	3.7	10.2	16.7	2.1	0.7	1.5	1.9

^a Class: WA = wild A, WB = wild B, NA = natural A, NB = natural B

Table 5. Mean percent of rated carrying capacity (PCC) of age-0+ chinook salmon parr in B- and C-channels, and density of age-0+ chinook salmon parr in C-channels, by class and year, 1985 through 1999.

Year	PCC (By Class ^a)		C-Channel Density (By Class ^a)	
	WSp/Wsu	NSp/NSu	WSp/WSu	NSp/NSu
1985	9.0	19.0	13.0	16.2
1986	12.0	18.0	15.4	18.7
1987	15.0	22.0	23.9	21.8
1988	11.0	17.0	16.7	18.5
1989	12.0	23.0	13.9	32.5
1990	5.0	6.0	4.9	6.3
1991	2.0	3.0	3.4	2.7
1992	6.0	4.0	6.6	5.0
1993	2.0	5.0	2.7	5.6
1994	11.0	28.0	11.0	24.1
1995	0.4	2.0	0.2	1.2
1996	0.07	0.4	0.01	0.4
1997	0.6	1.0	1.1	1.3
1998	6.0	23.1	5.5	24.6
1999	9.0	10.9	11.9	11.7
Mean	6.7	12.2	8.7	12.7
SD of Annual Means	4.9	9.6	7.1	10.3

^a WSp = wild spring, Wsu = wild summer, NSp = natural spring, Nsu = natural summer.

Table 6. Summary of length-at-age information for steelhead trout by drainage.

Drainage	Length-at-Age (mm)				Source
	0+	1+	2+	3+	
<u>General Parr Monitoring Guidelines</u>					
All Drainages	<74	74-152	152-228	>228	Petrosky & Holubetz (1985) IDFG
<u>Clearwater River Drainage</u>					
Lower Lochsa River	<75	75-127	127-203	>203	C. Huntington, Clearwater BioStudies, Inc., (pers. comm.)
Lower Lochsa River		135-140	160-170		A. Byrne, IDFG, (pers. comm.)
<u>Salmon River Drainage</u>					
Upper Salmon River		<90	90-200	>200	R. Kiefer, IDFG, (pers. comm.)
Middle Fork Salmon R.	<70	70-130	130-200	>200	Thurow (1985) IDFG
Middle Fork Salmon R.	<70	70-130	130-200	>200	Everest (1969)
South Fork Salmon R.	<70	70-130	130-200	>200	Thurow (1987) IDFG
<u>Snake River Drainage</u>					
Lower Granite Dam		120-250	>250		Unpublished, 1977 Idaho Coop. Fishery Unit

Table 7. Breakdown of 1997 to 1999 GPM sampling by classes of anadromous fish and channel type.

Class	Year	Steelhead				Chinook					
		WA	WB	NA	NB	Total	WSp	WSu	NSp	NSu	Total
Number Cells	1997	5	4	5	3	17	5	2	9	2	18
	1998	4	4	5	3	16	5	2	9	2	18
	1999	5	4	7	3	19	4	2	9	2	17
Number Streams	1997	11	38	16	11	76	21	2	47	6	76
	1998	10	35	11	11	67	20	2	41	5	68
	1999	11	34	19	11	75	21	3	45	7	76
Number Sites											
B-Channel	1997	22	62	29	20	133	25	3	87	18	133
	1998	20	63	17	29	129	26	3	77	23	129
	1999	22	58	34	21	135	32	3	78	22	135
C-Channel	1997	2	40	17	22	81	29	0	44	8	81
	1998	2	34	12	24	72	24	0	38	10	72
	1999	2	44	17	19	82	30	2	38	12	82
Total	1997	24	102	46	42	214	54	3	131	26	214
	1998	22	97	29	53	201	50	3	115	33	201
	1999	24	102	51	40	217	62	5	116	34	217
Number of streams currently being sampled intensively											
w/ GPM sites	1997	2	7	2	1	12	5	0	4	1	10
	1998	2	3	1	1	7	4	0	5	0	9
	1999	2	5	1	1	9	3	0	5	0	8
w/o GPM sites	1997	9	31	14	10	64	16	2	43	5	66
	1998	8	32	10	10	60	16	2	36	5	59
	1999	9	29	18	10	66	18	3	40	7	68
Total	1997	11	38	16	11	76	21	2	47	6	76
	1998	10	35	11	11	67	20	2	41	5	68
	1999	11	34	19	11	75	21	3	45	7	76

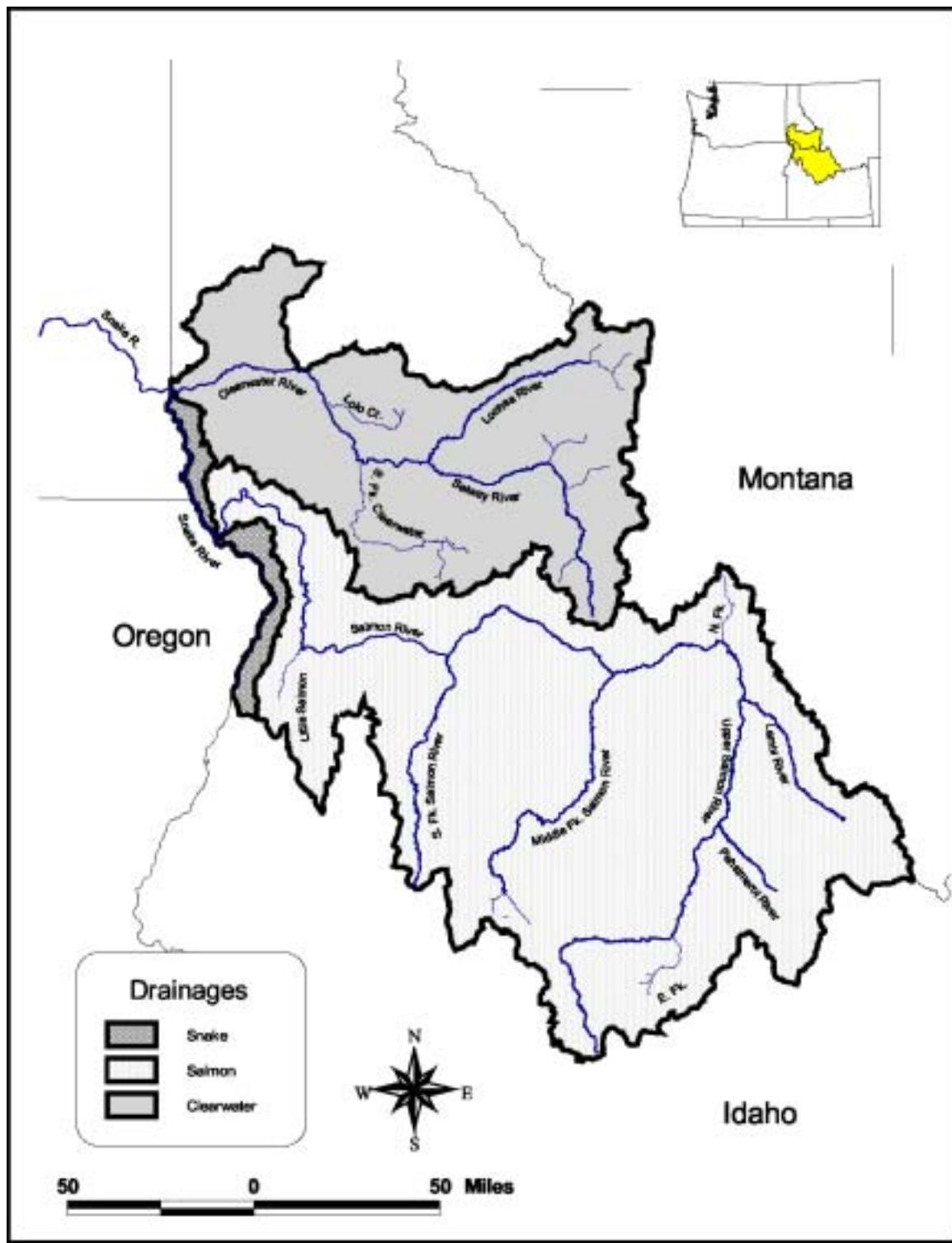


Figure 1. Idaho's present anadromous fish production waters showing major drainages of the Clearwater, Salmon, and Snake river subbasins.

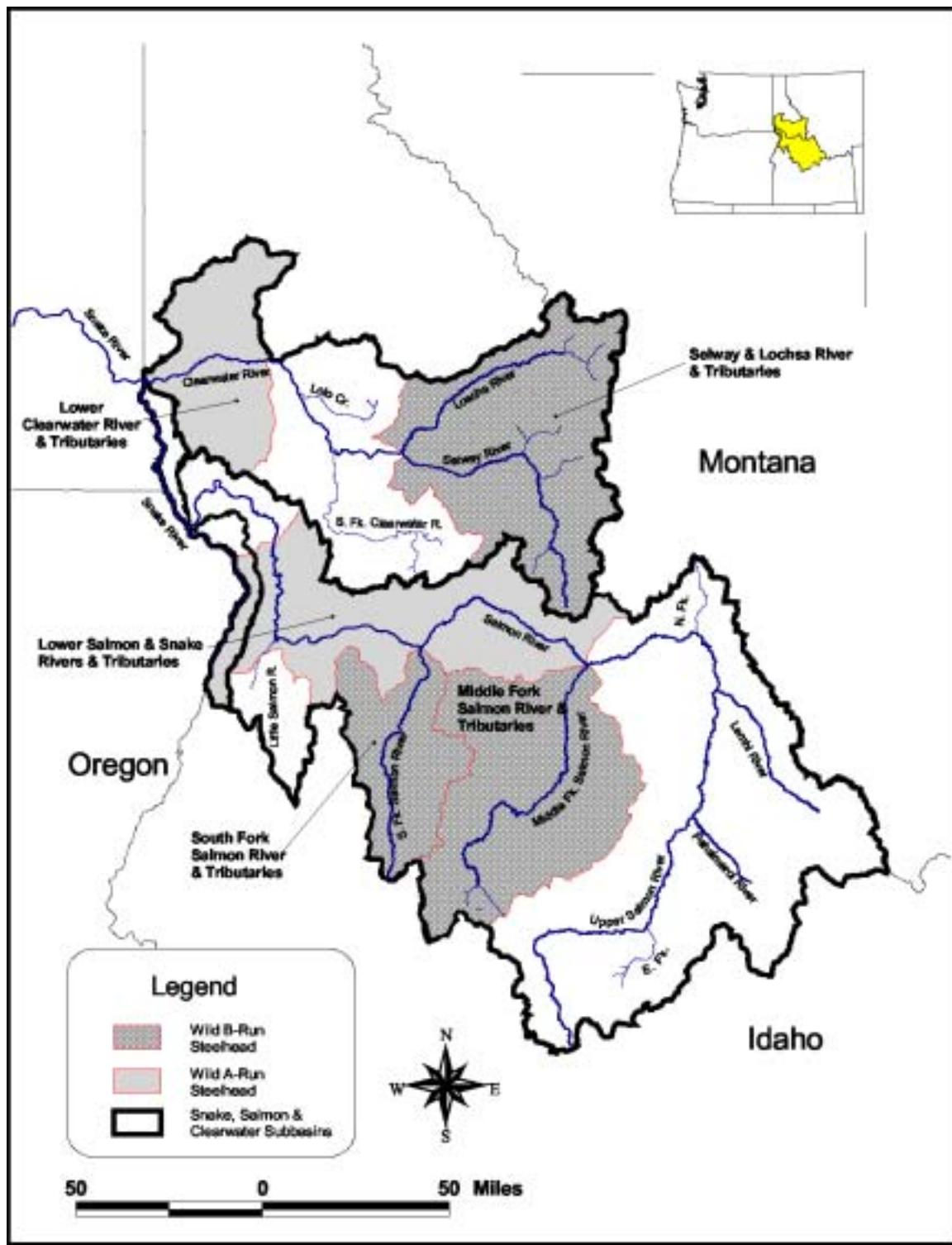


Figure 2. Present distribution of wild A-run and B-run steelhead trout production areas in Idaho.

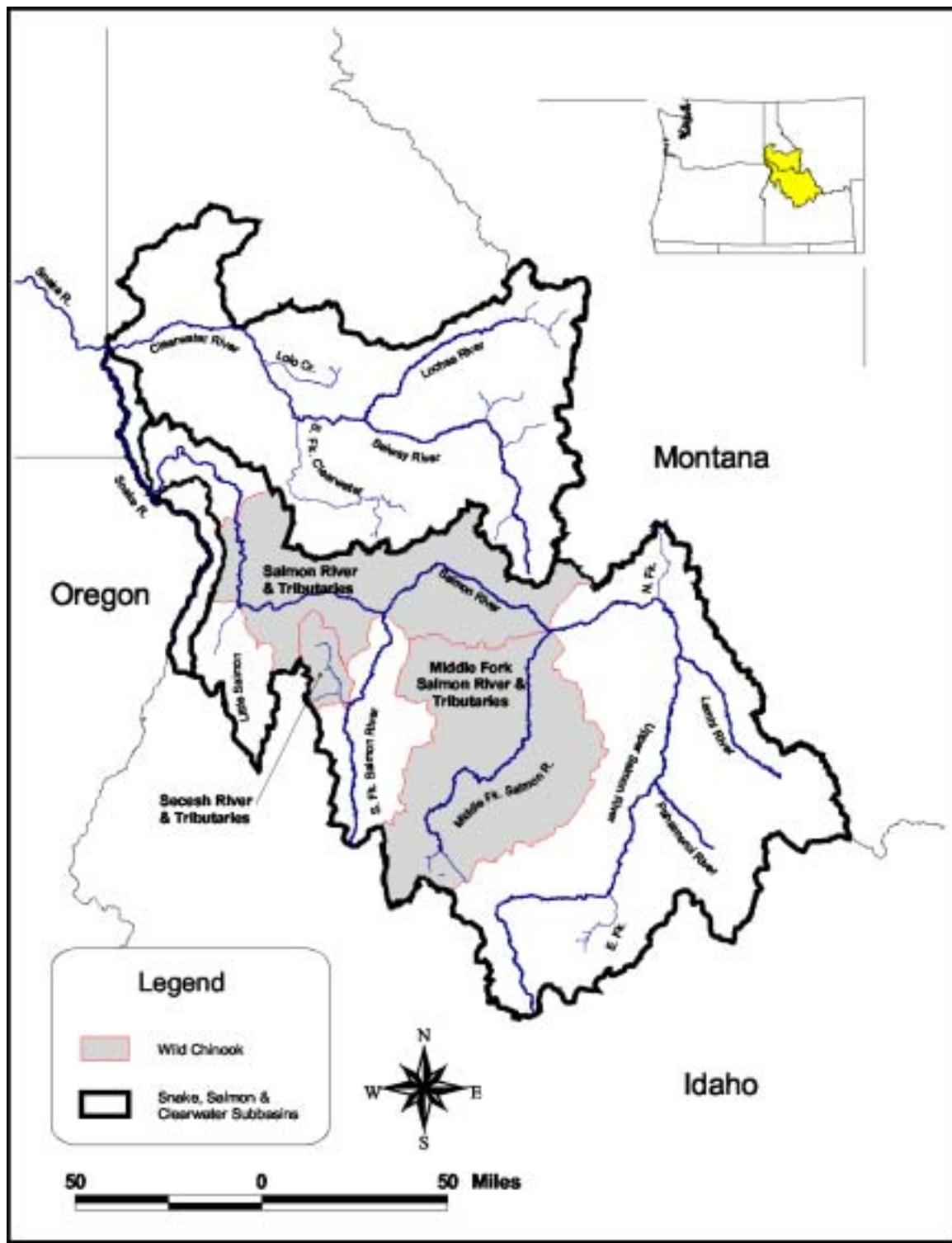


Figure 3. Present distribution of wild chinook salmon production areas in Idaho.

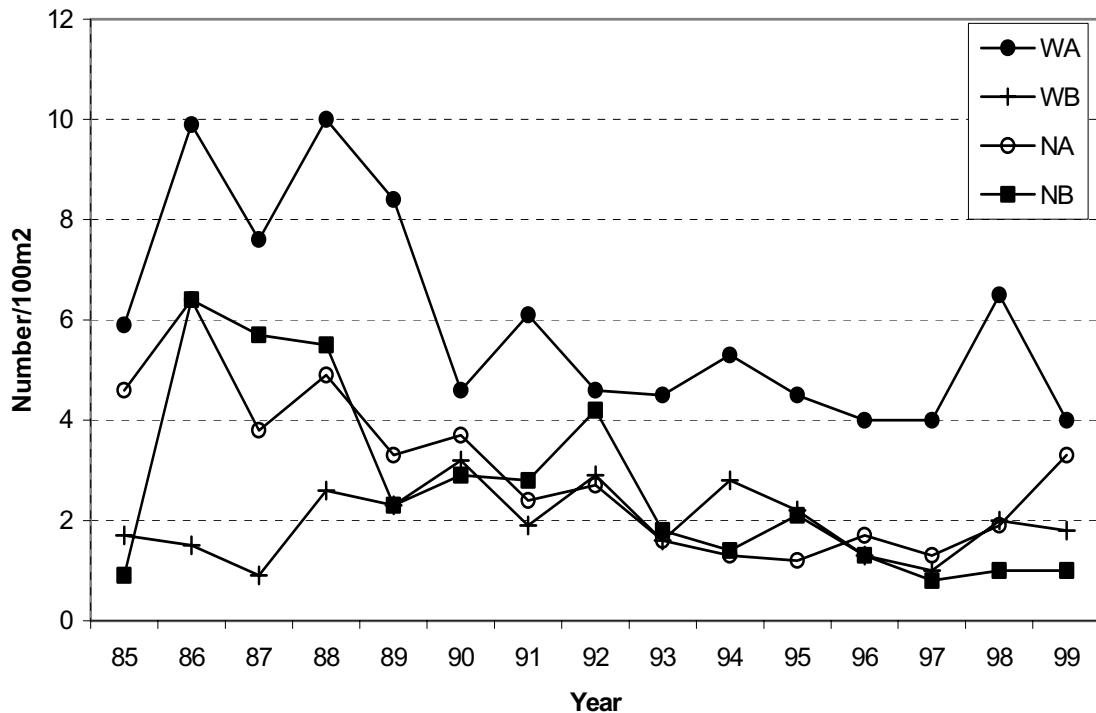


Figure 4. Mean annual density (number of age-1+ steelhead trout/100 m² in B-channels) of four classes of steelhead trout parr in Idaho, 1985 through 1999.

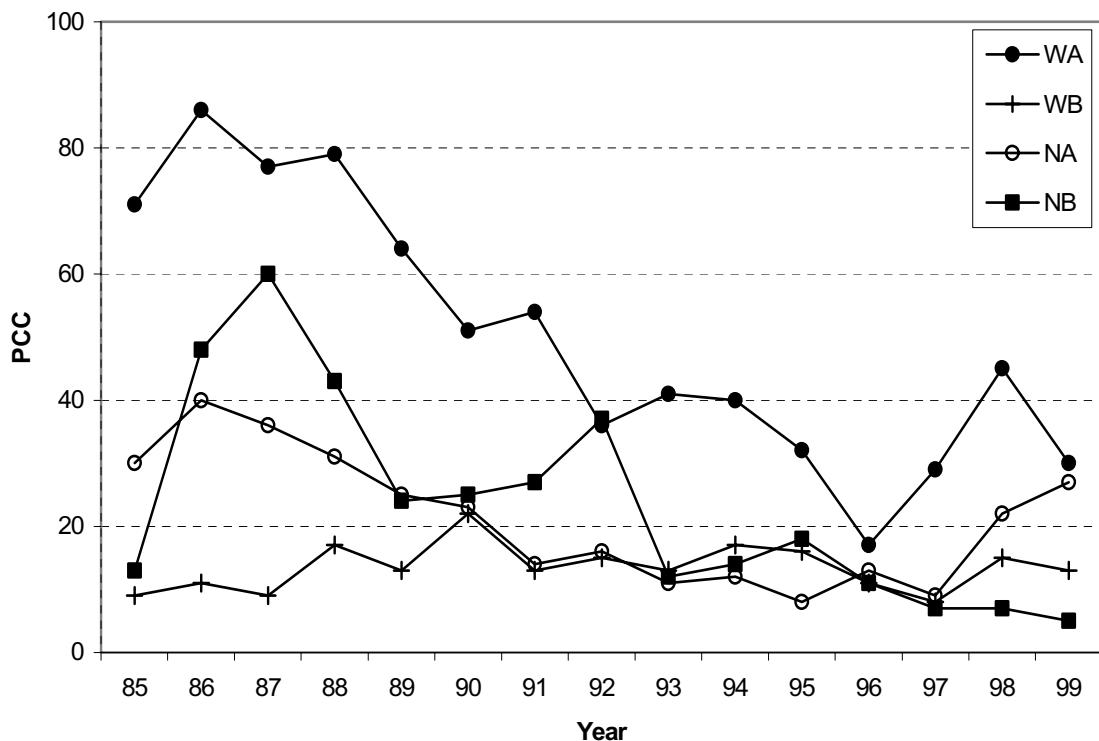


Figure 5. Mean annual percent of carrying capacity (PCC) of four classes of steelhead trout parr (age-1+ and -2+ in B- and C-channels) in Idaho, 1985 through 1999.

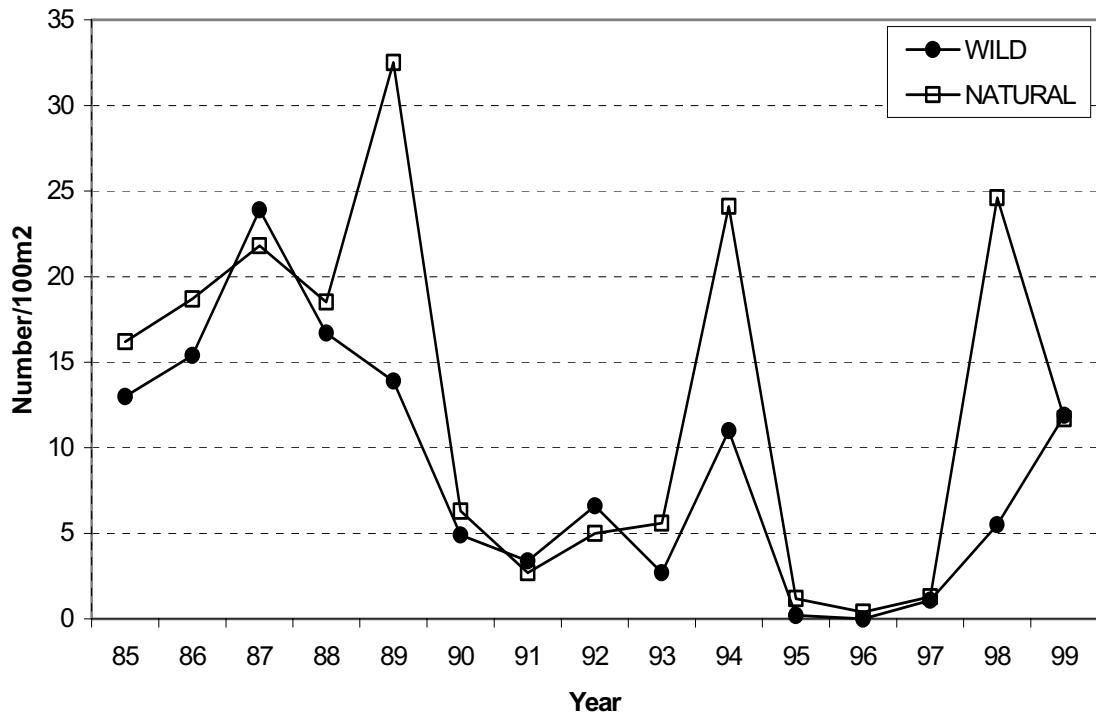


Figure 6. Mean annual density (number/100 m² in C-channels) of two classes of chinook salmon parr (age-0+) in Idaho, 1985 through 1999.

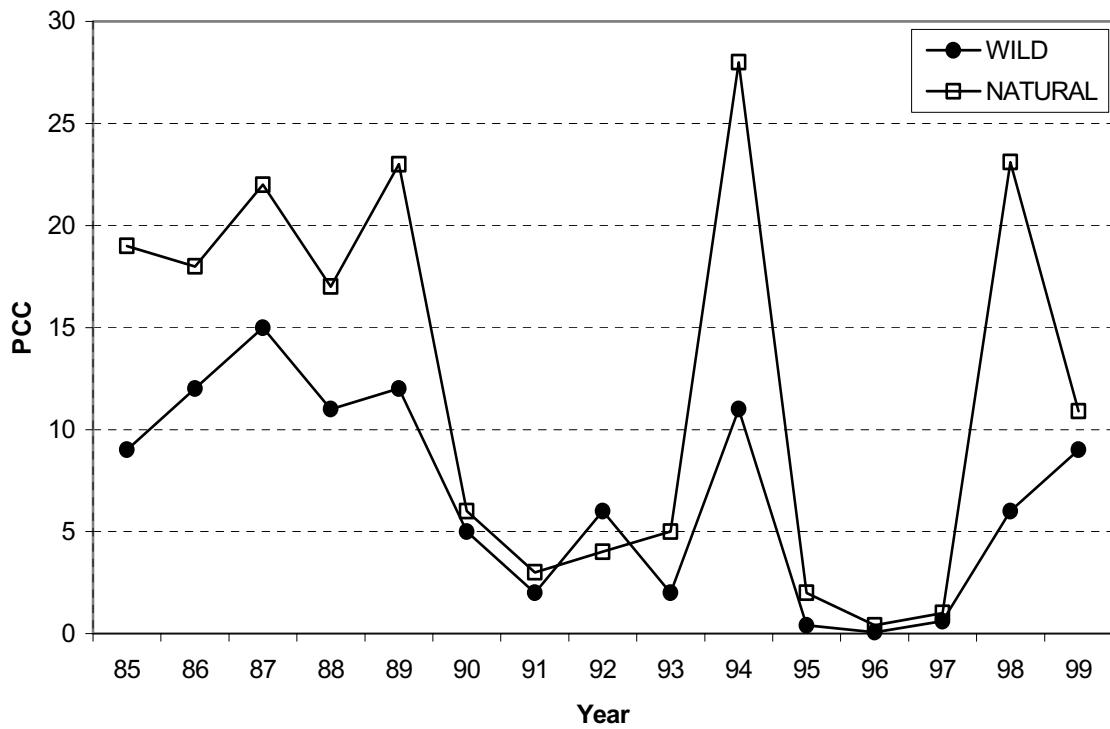
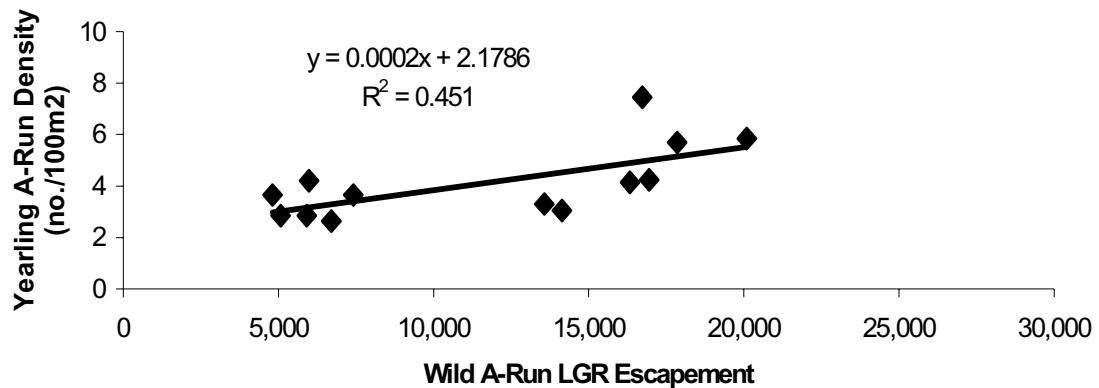


Figure 7. Mean annual percent of carrying capacity (PCC) of two classes of chinook salmon parr (age-0+ in B- and C-channels) in Idaho, 1985 through 1999.

8a.



8b.



8c.

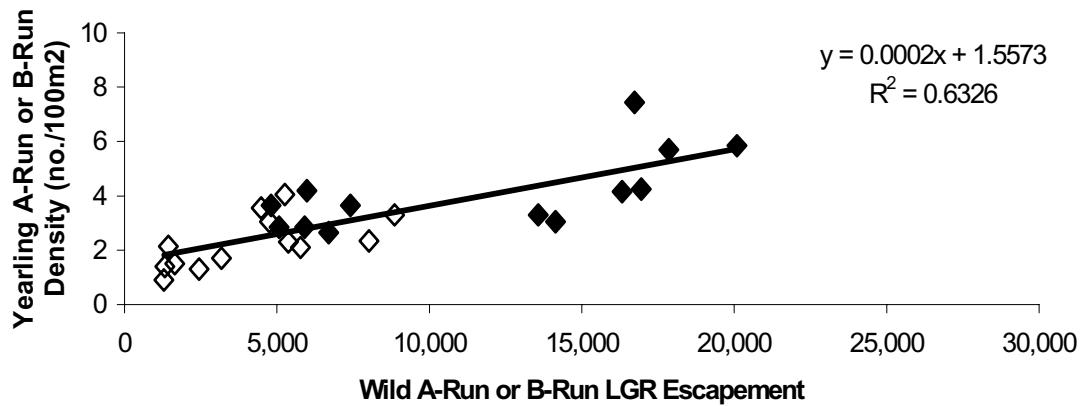


Figure 8. Relationship of steelhead trout yearling parr density in B-channels to escapement to Lower Granite Dam (LGR) for A-run (8a), B-run (8b), and combined data sets (8c), parr years 1987 to 1999.

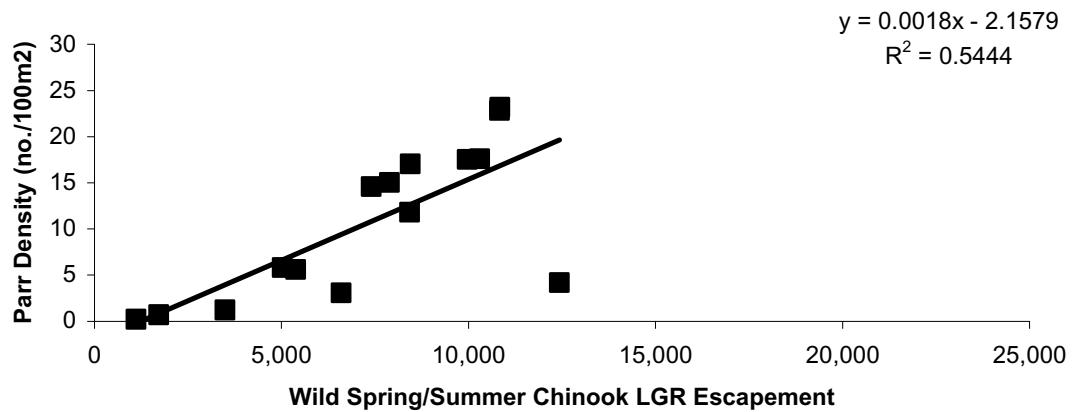


Figure 9. Relationship of spring/summer chinook salmon parr density in C-channels to escapement to Lower Granite Dam (LGR), parr years 1985 to 1999.

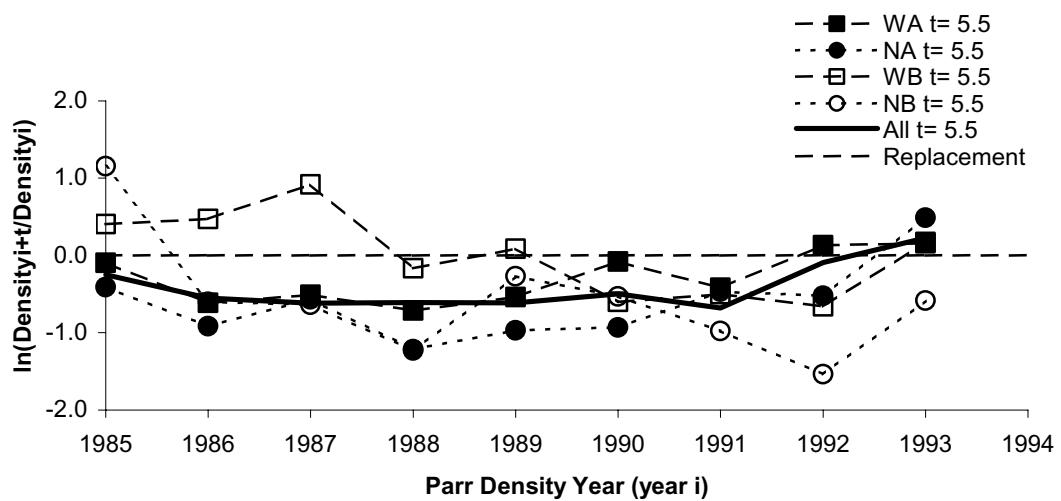


Figure 10. Generational parr density trends for wild A-run (WA), natural A-run (NA), wild B-run (WB), natural B-run (NB), and combined classes (All) steelhead trout, parr years (parent generation) 1985 to 1993. Analysis assumes generation length (t) of 5.5 years.

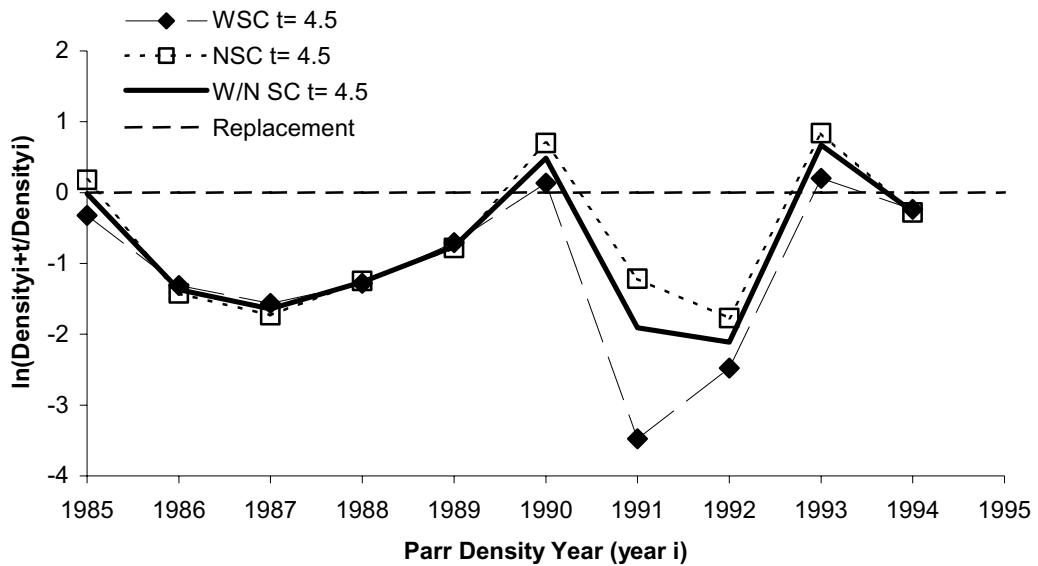


Figure 11. Generational parr density trends for wild spring/summer chinook salmon (WSC) and natural spring/summer chinook salmon (NSC), and combined wild/natural spring/summer chinook (W/N), parr years (parent generation) 1985 to 1994. Analysis assumes generation length (t) of 4.5 years.

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APPENDICES

Appendix A. Prioritization of general parr monitoring snorkel streams, 1997 to 1999.

Stream	Drain	Chinook (Y/N)	Steelhead (Y/N)	Agency 1	Agency 2	Priority (1-4)
(18) LEMHI RIVER						
Bear Valley Cr	204	Y	Y	R7		3
Big Springs Cr	204	Y	Y	R7		1
Hayden Cr	204	Y	Y	R7		1
Lemhi R	204	Y	Y	R7		1
(19) PAHSIMEROI RIVER						
Pahsimeroi R	202	Y	Y	RES		1
(20) LITTLE SALMON RIVER						
Boulder Cr	210	Y	Y	R3		3
Hazard Cr	210	Y	Y	R3		3
Little Salmon R	210	Y	Y	R3		3
Rapid R	210	Y	Y	R3		1
Rapid R, W Fk	210	Y	Y	R3		1
(21) SELWAY RIVER						
Bear Cr	301	Y	Y	R2		3
Deep Cr	301	Y	Y	R2		3
Gedney Cr	302	N	Y	RES		1
Little Clearwater R	301	Y	Y	R2		2
Marten Cr	302	Y	Y	R2		4
Meadow Cr	302	Y	Y	NPT	R2	1
Moose Cr	302	Y	Y	R2		3
Moose Cr, E Fk	302	Y	Y	R2		3
Moose Cr, N Fk	302	Y	Y	R2		3
O'Hara Cr	302	Y	Y	R2		3
Otter Cr	302	Y	Y	R2		4
Running Cr	301	Y	Y	RES		1
Selway R	301	Y	Y	R2		3
Three Links Cr	302	Y	Y	R2		4
White Cap Cr	301	Y	Y	R2		1
(22) LOCHSA RIVER						
Big Flat Cr	303	Y	Y	RES		1
Brushy Fk Cr	303	Y	Y	RES		1
Colt Cr	303		Y	R2		3
Crooked Fk Cr	303	Y	Y	RES		1
Fire Cr	303	N	Y	R2		1
Fish Cr	303	N	Y	RES		1
Hopeful Cr	303		Y	R2		3
Lochsa R	303	Y	Y	R2		3
Old Man Cr	303	N	Y	R2		4
Papoose Cr	303	Y	Y	NPT		2
Pete King Cr	303	Y	Y	FRO		2
Post Office Cr	303	Y	Y	R2		3
Squaw Cr	303	Y	Y	NPT		2
Split Cr	303	N	Y	R2		1
Warm Springs Cr	303	Y	Y	R2		3
White Sand Cr	303	Y	Y	RES		1
(5) SNAKE RIVER						
Wolf Cr	101					4
(5A) SNAKE RIVER (above mouth of Salmon R)						
Captain John Cr	101	N	Y	R2		1
Granite Cr	101	N	Y	R2		3
Sheep Cr	101	Y	Y	NPT/R2		1

Appendix A. (Continued.)

Stream	Drain	Chinook (Y/N)	Steelhead (Y/N)	Agency 1	Agency 2	Priority (1-4)
(6) LOWER CLEARWATER RIVER						
Bedrock Cr	306		Y	R2	RES	4
Big Canyon Cr	306	N	Y	R2		1
Eldorado Cr	306	Y	Y	NPT	R2	2
Lapwai Cr	306	N	Y	NPT	R2	1
Lolo Cr	306	Y	Y	NPT	R2	1
Mission Cr	306	N	Y	R2		1
Potlatch R	306	N	Y	R2		1
Potlatch R, E Fk	306	N	Y	R2		2
(6A) MIDDLE FORK CLEARWATER RIVER						
Clear Cr	304	Y	Y	FRO	R2	1
Clear Cr, S Fk	304	Y	Y	FRO	R2	1
(6B) SOUTH FORK CLEARWATER RIVER						
American R	305	Y	Y	R2		2
Clearwater R, S Fk	305	Y	Y	R2		3
Crooked R	305	Y	Y	RES		1
Crooked R, E Fk	305	Y	Y	RES		3
Crooked R, W Fk	305	Y	Y	RES		3
Five Mile Cr	305		Y	RES		4
Gospel Cr	305	N	Y	R2		4
Johns Cr	305	N	Y	R2		3
Meadow Cr	305	Y	Y	NPT	R2	2
Mill Cr	305	Y	Y	NPT		2
Moores Cr	305	N	Y	R2		4
Moose Butte Cr	305		Y	R2		3
Newsome Cr	305	Y	Y	NPT	R2	2
Red R	305	Y	Y	R2		1
Red R, Sfk	305	Y	Y	R2		1
Relief Cr	305		Y	RES		2
Tenmile Cr	305	Y	Y	R2		1
Twin Lakes Cr	305	None	None	R2		4
(7A) LOWER SALMON RIVER (Mouth to French Cr)						
John Day Cr	209	Y	Y	R2		3
Little Slate Cr	209	Y	Y	NPT		2
Race Cr	209	Y	Y	R2		3
Skookumchuck Cr	209	Y	Y	R2		3
Slate Cr	209	Y	Y	NPT		2
Whitebird Cr	209	Y	Y	R2		1
Whitebird Cr, N Fk	209	Y	Y	R2		4
Whitebird Cr, S Fk	209	Y	Y	R2		1
(7B) SALMON RIVER CANYON (French Cr to Middle Fk)						
Bargamin Cr	207	Y	Y	R3	R2	3
Big Mallard Cr	207					1
Chamberlain Cr	207	Y	Y	RES		1
Chamberlain Cr, S Fk	207	Y	Y	RES		1
Chamberlain Cr, W Fk	207	Y	Y	RES		1
Crooked Cr	207	Y	Y	R2		1
Fish Cr	207			RES		
Flossie Cr	207			R7		3
Game Cr	207					
Indian Cr	207			R7		
Horse Cr	207	Y	Y	R7		3
Jersey Cr	207	Y	Y	R2		1
Moose Cr	207					
Panther Cr	203	Y	Y	R7		3

Appendix A. (Continued.)

Stream	Drain	Chinook (Y/N)	Steelhead (Y/N)	Agency 1	Agency 2	Priority (1-4)
(7B) SALMON RIVER CANYON (French Cr to Middle Fk) (Continued)						
Rim Cr	207	None	None			4
Sheep Cr	207	Y	Y	R3	R2	1
(7C) UPPER SALMON RIVER (Middle Fk to Sawtooth Weir)						
Basin Cr	201	N	Y	RES		2
Morgan Cr	201	Y	Y	R7		3
Moyer Cr	203	Y	Y	R7		3
Pine Cr	203	N	Y	R7		4
Redfish Lk Cr	201	Y	Y	R7		3
Salmon R	201	Y	Y	R7		3
Salmon R, N Fk	203	Y	Y	R7		1
Thompson Cr	201	Y	Y	R7		3
Valley Cr	201	Y	Y	SBT	R7	1
Warm Springs Cr	201	Y	Y	R7		3
Yankee Fork, W Fk	201	Y	Y	SBT	R7	2
(7D) HEADWATERS SALMON RIVER (above Sawtooth Weir)						
Alturas Lk Cr	201	Y	Y	R7		1
Beaver Cr	201	Y	Y	RES		2
Champion Cr	201	Y	Y	RES		3
Fourth Of July Cr	201	Y	Y	RES		3
Frenchman Cr	201	Y	Y	RES		2
Gold Cr	201	Y	Y	RES		3
Huckleberry Cr	201	Y	Y	RES		3
Pettit Lk Cr	201	Y	Y	RES		3
Pole Cr	201	Y	Y	RES		3
Salmon R	201	Y	Y	RES		1
Smiley Cr	201	Y	Y	RES		3
Williams Cr	201	Y	Y	RES		3
Yellowbelly Cr	201	Y	Y	RES		3
(7E) EAST FORK SALMON RIVER						
Herd Cr	201	Y	Y	SBT	R7	1
Germania Cr	201	N	Y	RES		2
Salmon R, E Fk	201	Y	Y	SBT	R7	1
West Pass Cr	201	N	Y	RES		2
(7F) SOUTH FORK SALMON RIVER						
Buckhorn Cr	208	Y	Y	R3		3
Dollar Cr	208	Y	Y	R3		4
Johnson Cr	208	Y	Y	R3		1
Lake Cr	208	Y	Y	R3	NPT	1
Lick Cr	208	Y	Y		R3	2
Rock Cr	208	Y	Y	R3	RES	1
Salmon R, S Fk	208	Y	Y	R3		1
Salmon R, S Fk (Upper)	208	Y	Y	SBT	R3	2
Salmon R, S Fk, E Fk	208	Y	Y	R3		1
Sand Cr	208	Y	Y	R3		1
Secesh R	208	Y	Y	NPT	R3	1
(7G) MIDDLE FORK SALMON RIVER						
Bear Valley Cr	205	Y	Y	SBT	RES	2
Bearskin Cr	205			R3		3
Beaver Cr	205	Y	Y	RES		1
Big Cr	206	Y	Y	R3		1
Camas Cr	206	Y	Y	R7		3
Cape Horn Cr	205	Y	Y	RES		1
Elk Cr	205	Y	Y	RES	R3	3

Appendix A. (Continued.)

<u>Stream</u>	<u>Drain</u>	<u>Chinook (Y/N)</u>	<u>Steelhead (Y/N)</u>	<u>Agency 1</u>	<u>Agency 2</u>	<u>Priority (1-4)</u>
(7G) MIDDLE FORK SALMON RIVER (Continued)						
Indian Cr	207	Y	Y	R7		3
Knapp Cr	205	Y	Y	RES		1
Loon Cr	205	Y	Y	R7		3
Marble Cr	205	Y	Y	R3		3
Marsh Cr	205	Y	Y	RES		1
Monumental Cr	206	Y	Y	R3		2
Monumental Cr, W Fk	206	Y	Y	R3		2
Pistol Cr	205	Y	Y	R7		3
Rush Cr	206					4
Salmon R, Middle Fk	205	Y	Y	R7		3
Sulphur Cr	205	Y	Y	RES		1

Appendix B. Table 1. General parr monitoring section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacity for all sites sampled in 1997.

Stream Name	Strata	Section	EPA Reach No.	Channel Type	SALMON RIVER DRAINAGE			Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
					Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²					
Snake R. above mouth Salmon R												
Granite Cr	.99	1	1706010101000	B	NA	2.25	2.53	23.87	WSPR	0.00	0.00	3
Granite Cr	.99	3	1706010101000	B	NA	3.31	2.76	30.38	WSPR	0.00	0.00	3
Sheep Cr	.99	1	17060101300	B	WA	2.98	6.33	46.55	WSPR	0.00	0.00	1
Sheep Cr	.99	2	17060101300	B	WA	6.21	4.75	54.82	WSPR	0.00	0.00	1
Salmon R. Headwaters												
Salmon R	10	10AB	1706020108400	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R	3	3B	1706020106900	B	NA	0.00	0.00	0.00	NSPR	0.29	0.65	1
Salmon R	3	3SA	1706020106900	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R	4	4B	1706020107100	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R	5	5B	1706020107500	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R	7	7A	1706020108200	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Upper Salmon R												
Morgan Cr	Lower	Fence	1706020100200	B	NA	5.30	1.59	49.17	NSPR	0.00	0.00	3
Morgan Cr	Upper	BLM Camp	1706020100200	C	NA	2.15	1.29	24.61	NSPR	0.00	0.00	3
Moyer Cr	Above	Mo1	1706020302300	C	NA	2.40	0.74	15.71	NSPR	0.00	0.00	3
Moyer Cr	Above	New Sec	1706020302300	B	NA	4.22	2.46	33.38	NSPR	0.00	0.00	3
Redfish Lk Cr	.99	Lower	1706020106100	B	NA	0.13	0.67	5.76	NSPR	0.07	0.09	3
Redfish Lk Cr	.99	Weir Ds	1706020106100	B	NA	0.00	0.06	0.45	NSPR	0.00	0.00	3
Panther Cr	Above	PC10	1706020302200	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00	3
Panther Cr	Above	PC9	1706020302000	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00	3
Panther Cr	Ds-Bigd	PC4	1706020301000	B	NA	0.46	0.12	2.90	NSPR	0.00	0.00	3
Panther Cr	Ds-Blackb	PC6	1706020301400	B	NA	0.84	0.37	12.10	NSPR	0.00	0.00	3
Panther Cr	Ds-Clear	PC1	1706020301600	B	NA	0.24	0.00	4.04	NSPR	0.12	1.01	3
Salmon R	1	Rbsn-Bar	1706020103900	B	NA	0.07	0.07	1.65	WSUM	0.03	0.04	1
Salmon R	2	2B	1706020106000	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R, E FK	Above-Weir	2	1706020107000	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R, E FK	Btw Weir	Blw Weir	1706020109800	B	NB	0.00	0.00	0.00	NSPR	0.10	0.12	1
Salmon R, N FK	2	Ziegler HI	1706020107700	B	NA	2.83	0.40	16.15	NSPR	0.08	0.10	1
Salmon R, N FK	2	Hughes	1706020307500	B	NA	0.96	0.52	10.53	NSPR	0.00	0.00	1
Thompson Cr	Above	Two-Pole	1706020103500	B	NA	0.50	0.00	3.61	NSPR	0.00	0.00	3
Thompson Cr	Below	1	1706020103500	B	NA	0.00	0.64	4.60	NSPR	0.16	0.37	3
Valley Cr	1	B	1706020105200	C	NA	0.00	0.00	0.00	NSPR	0.12	0.15	1
Valley Cr	3	A	1706020105300	C	NA	0.00	0.06	0.61	NSPR	0.12	0.28	1
Valley Cr	3	B	1706020105400	B	NA	0.00	0.10	0.72	NSPR	1.51	3.43	1
Valley Cr	6	B	1706020105500	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1
Warm Springs Cr	.99	Cabins	1706020109900	B	NA	0.00	0.00	0.00	NSPR	0.49	4.06	3
Lemhi R												
Bear Valley Cr	Hc1	B	1706020402600	C	NA	0.09	0.00	0.45	NSPR	0.00	0.00	3
Bear Valley Cr	Hc1	Camp	1706020402600	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	3
Big Springs Cr	Lem1	A	1706020408300	C	NA	0.65	3.17	19.10	NSPR	0.00	0.00	1
Hayden Cr	Hc2	B	1706020402800	B	NA	0.12	0.00	0.60	NSPR	0.00	0.00	1
Hayden Cr	Hc3	B	1706020402400	B	NA	0.00	0.00	0.98	NSPR	0.00	0.00	1

Appendix B, Table 1. (Continued.)

SALMON RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum
Lemhi R	1	2b	1706020403700	C	NA	0.00	0.68	3.39	NSPR
Lemhi R	1	Lem3a	1706020403700	C	NA	0.58	1.74	11.62	NSPR
Lemhi R	1	Pwrhs L58a	1706020403500	C	NA	2.65	1.48	20.66	NSPR
Salmon R. Middle Fork									
Bearskin Cr	.99	4	1706020508400	C	WB	0.00	0.00	0.00	WSPR
Bearskin Cr	.99	5	1706020508400	C	WB	0.00	0.00	0.00	WSPR
Beaver Cr	1	A	1706020503600	B	WB	0.50	0.25	5.39	WSPR
Beaver Cr	3		1706020503600	C	WB	0.08	0.17	1.80	WSPR
Big Cr	Middle	Taylor 1	1706020601100	C	WB	0.00	0.00	0.00	WSPR
Big Cr	Upper	Abv Hogbk	1706020603000	B	WB	0.07	0.21	1.40	WSPR
Big Cr	Upper	Abv Jacobs	1706020603200	C	WB	0.00	0.00	0.00	WSPR
Big Cr	Upper	Lan Cr	1706020603000	B	WB	0.00	0.67	4.78	WSPR
Big Cr	Upper	Near Ford	1706020603200	C	WB	0.10	0.38	2.38	WSPR
Camas Cr	.99	1	1706020605200	C	WB	0.16	0.05	1.05	WSPR
Camas Cr	.99	2	1706020605200	C	WB	0.00	0.07	0.34	WSPR
Camas Cr	.99	Cam1	1706020605200	B	WB	1.24	1.58	14.07	WSPR
Cape Horn Cr	1	A	1706020503400	C	WB	0.00	0.00	0.00	WSPR
Cape Horn Cr	2	B	1706020503400	C	WB	0.38	0.00	2.72	WSPR
Elk Cr	1	A	1706020502600	C	WB	0.10	0.00	1.01	WSPR
Elk Cr	1	B	1706020502600	C	WB	0.00	0.00	0.00	WSPR
Elk Cr	2	A	1706020502600	C	WB	0.00	0.00	0.00	WSPR
Elk Cr	2	B	1706020502600	C	WB	0.00	0.00	0.00	WSPR
Loon Cr	2	C	1706020502603	C	WB	0.00	0.00	0.00	WSPR
Loon Cr	1	A	1706020502600	C	WB	0.00	0.00	0.00	WSPR
Loon Cr	1	B	1706020502600	C	WB	0.00	0.00	0.00	WSPR
Loon Cr	3	Channel Lnn1	1706020505000	B	WB	0.17	0.33	2.48	WSPR
Loon Cr	1	Pack Br	1706020505000	C	WB	0.90	0.22	5.60	WSPR
Marsh Cr	1	A	1706020503200	B	WB	0.65	0.89	7.67	WSPR
Marsh Cr	1	B	1706020503200	B	WB	0.79	1.49	11.43	WSPR
Monumental Cr	.99	Mon1	1706020603800	B	WB	0.00	0.00	0.00	WSPR
Monumental Cr	.99	Mon2	1706020603800	C	WB	0.26	0.52	3.91	WSPR
Monumental Cr, W Fk	.99	Mon4	1706020603700	C	WB	0.00	0.00	0.00	WSPR
Sulphur Cr	2	4B	1706020502100	B	WB	0.00	0.00	0.00	WSPR
Salmon R. Canyon									
Bargamin Cr	.99	1	1706020708000	B	WA	0.99	1.99	14.91	WSPR
Bargamin Cr	.99	2	1706020708000	B	WA	2.41	2.30	23.57	WSPR
Sheep Cr	.99	L1	1706020709300	B	WA	2.54	0.55	15.44	WSPR
Sheep Cr	.99	L2	1706020709300	B	WA	0.28	2.07	11.71	WSPR
Salmon R. S Fk									
Johnson Cr	Lower lv	L2	1706020804400	B	WB	0.58	1.99	25.76	NSUM
Johnson Cr	Lower lv	L3	1706020804400	B	WB	0.86	1.64	25.02	NSUM
Johnson Cr	Mid Lowlii	PW3B	1706020804700	B	WB	0.17	0.62	7.84	NSUM
Johnson Cr	Mid Upr li	PW3A	1706020804700	B	WB	2.70	1.94	23.19	NSUM
Johnson Cr	Upper I	M1	1706020804703	C	WB	0.00	0.00	0.00	NSUM
Johnson Cr	Upper I	M2	1706020804702	C	WB	0.00	0.00	0.00	NSUM
Johnson Cr	Upper I	M2 SIDE	1706020804702	C	WB	0.00	0.00	0.00	NSUM
Johnson Cr	Upper I	M3	1706020804701	C	WB	0.00	0.00	0.07	NSUM
Johnson Cr	Upper I	M3 SIDE	1706020804701	C	WB	0.00	0.00	0.16	NSUM
Johnson Cr	Upper I	PW1A	1706020804701	B	WB	0.00	0.10	0.99	NSUM

Appendix B, Table 1. (Continued.)

SALMON RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum
Lick Cr	.99	L1	1706020802000	B	WB	1.00	0.67	11.88	WSUM
Rock Cr	Upper I	M1	1706020809800	C	WB	0.00	0.19	1.35	NSPR
Salmon R, S Fk, E Fk	.99	3	1706020805102	B	WB	0.00	0.14	1.40	NSUM
Salmon R, S Fk, E Fk	.99	6	1706020804300	B	WB	0.10	0.63	5.17	NSUM
Salmon R, S Fk, E Fk	.99	7	1706020804200	B	WB	4.38	0.73	36.52	NSUM
Salmon R, S Fk, E Fk	Adv Jhnsn	Sugar Cr	1706020805104	B	WB	0.00	0.12	1.25	NSUM
Salmon R, S Fk, E Fk	Blw Jhnsn	MP 35.8	1706020804000	B	WB	0.68	0.94	11.56	NSUM
Sand Cr	Upper I	M2	1706020807400	C	WB	0.00	0.00	0.00	NSUM
Lower Salmon R									
Skookumchuck Cr	.99	1	1706020902800	B	WA	3.82	4.37	58.54	WSPR
Skookumchuck Cr	.99	2	1706020902800	B	WA	8.53	3.10	58.17	WSPR
Whitebird Cr	Whitebird Cr, S Fk	SF #2	1706020902900	B	WA	14.53	3.33	89.32	WSPR
Whitebird Cr, S Fk	Whitebird Cr, S Fk	SF #3	1706020903000	B	WA	16.62	3.63	101.25	WSPR
Little Salmon R									
Boulder Cr	Above	1	1706021000900	B	NA	2.13	0.96	15.47	NSPR
Boulder Cr	Above	2	1706021000900	B	NA	3.83	1.28	25.54	NSPR
Boulder Cr	Boulder Cr	3	1706021000900	B	NA	5.96	3.51	47.37	NSPR
Boulder Cr	Adv W Fk	Below	5	1706021000900	B	NA	1.16	20.33	NSPR
Rapid R	Castle Cr	Adv W Fk	6	1706021000400	B	WA	0.28	0.47	3.74
Rapid R	Copper Cr	Adv W Fk	7	1706021000400	B	WA	0.43	4.34	NSUM
Rapid R	Wyant	Adv W Fk	8	1706021000400	B	WA	1.62	1.32	14.70
Rapid R	Blw W Fk	Blw W Fk	9	1706021000400	B	WA	1.15	1.15	11.50
Rapid R	Rap2	Blw W Fk	10	1706021000200	B	WA	0.77	1.03	9.01
Rapid R	Rap1	Blw W Fk	11	1706021000200	B	WA	2.64	1.50	20.71
Rapid R, W Fk	Blw Falls		12	1706021000300	B	WA	3.25	1.77	25.11
Selway R									
Bear Cr	.99	1	1706030102400	B	WB	0.07	0.35	2.08	NSPR
Bear Cr	.99	2	1706030102400	B	WB	0.00	0.00	0.00	NSPR
Deep Cr	Cactus		1706030101900	B	WB	4.28	1.11	26.94	NSPR
Deep Cr	Scimitar		1706030101900	B	WB	1.85	0.69	12.69	NSPR
Gedney Cr	.99	1	1706030204000	B	WB	2.20	3.25	27.23	NSPR
Gedney Cr	.99	2	1706030204000	B	WB	4.88	3.73	43.05	NSPR
Little Clearwater R	.99	1	1706030101100	B	WB	1.42	0.47	9.45	NSPR
Meadow Cr	.99	2	1706030101100	B	WB	1.59	1.41	15.00	NSPR
Meadow Cr	.99	2	1706030200500	B	WB	0.77	0.72	24.84	NSPR
Moose Cr	.99	2	1706030203000	B	WB	0.16	0.20	6.01	NSPR
Moose Cr	.99	3	1706030201500	B	WB	0.05	0.00	0.27	NSPR
Moose Cr, E Fk	.99	3	1706030201500	B	WB	0.00	0.00	0.00	NSPR
Moose Cr, N Fk	.99	4	1706030203000	B	WB	0.00	0.00	0.00	NSPR
Running Cr	.99	1	1706030100800	B	WB	0.00	0.00	0.00	NSPR
Running Cr	.99	2	1706030100801	B	WB	0.00	0.00	0.00	NSPR
Selway R	.99	2	1706030101300	C	WB	0.30	0.45	3.77	NSPR
Selway R	.99	3	1706030101400	B	WB	0.54	0.77	6.56	NSPR
Selway R	.99	4	1706030101300	B	WB	0.20	0.46	3.29	NSPR
Selway R	.99	1	1706030101300	C	WB	0.24	0.37	3.06	NSPR
Three Links Cr	.99		1706030203900	B	WB	7.07	3.39	52.30	NSPR

Appendix B, Table 1. (Continued.)

<u>CLEARWATER RIVER DRAINAGE</u>									
<u>Stream Name</u>	<u>Strata</u>	<u>Section</u>	<u>EPA Reach No.</u>	<u>Channel Type</u>	<u>Steelhead Class W vs N A vs B</u>	<u>Steelhead Age-1+ Density No/100m²</u>	<u>Steelhead Age-2+ Density No/100m²</u>	<u>Steelhead Percent Carrying Capacity</u>	<u>Chinook Class W vs N Spr vs Sum</u>
White Cap Cr	3	1	1706030102100	B	WB	0.67	1.54	11.04	NSPR
White Cap Cr	3	2	1706030102100	B	WB	0.27	0.65	4.63	NSPR
White Cap Cr	3	3	1706030102100	B	WB	0.86	1.04	9.51	NSPR
Lochsa R									
Brushy Fk Cr	3	1	1706030304300	B	WB	1.31	1.31	13.11	NSPR
Brushy Fk Cr	3	2	1706030304300	B	WB	0.53	1.06	7.96	NSPR
Crooked Fk Cr	1	2A	1706030307000	B	WB	0.00	0.00	0.00	NSPR
Crooked Fk Cr	2	3A	1706030304700	B	WB	0.00	0.00	0.00	NSPR
Crooked Fk Cr	2	4A	1706030304700	B	WB	0.00	0.00	0.00	NSPR
Crooked Fk Cr	3	1	1706030304300	B	WB	0.00	0.00	0.00	NSPR
Crooked Fk Cr	3	2	1706030304200	C	WB	0.58	0.58	5.82	NSPR
Crooked Fk Cr	3	2B	1706030304200	B	WB	0.82	0.39	6.06	NSPR
Crooked Fk Cr	4	1B	1706030304600	B	WB	0.29	1.91	11.05	NSPR
Fish Cr	.99	1	1706030305400	B	WB	3.17	2.80	59.68	NSPR
Fish Cr	.99	2	1706030305400	B	WB	6.88	5.49	121.75	NSPR
Hopeful Cr	1	Boogied	1706030304701	B	WB	0.00	0.00	0.00	NSPR
Lochsa R	.99	L1	1706030308000	B	WB	0.05	0.03	0.55	NSPR
Lochsa R	.99	L4	1706030308000	B	WB	0.00	0.00	0.00	NSPR
Post Office Cr	.99	1	1706030308000	B	WB	0.00	0.45	2.24	NSPR
Post Office Cr	.99	2	1706030301900	B	WB	0.00	0.38	1.89	NSPR
Warm Springs Cr	.99	1	1706030301900	B	WB	0.33	0.00	1.65	NSPR
Clearwater R. S Fk									
American R	2	1	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	3	2	1706030503301	B	NB	0.00	0.12	0.86	NSPR
Crooked R	1	1	1706030503301	B	NB	0.00	0.00	0.00	NSPR
Crooked R	1	Control	1706030503301	B	NB	0.00	0.00	0.00	NSPR
Crooked R	1	Sill-Log-B	1706030503301	B	NB	0.00	0.78	5.57	NSPR
Crooked R	1	Control1	1706030503301	B	NB	0.11	0.57	4.91	NSPR
Crooked R	2	Treat1	1706030503300	B	NB	0.11	0.88	7.09	NSPR
Crooked R	3	Natural1	1706030503300	C	NB	0.21	0.15	1.79	NSPR
Crooked R	3	Natural3	1706030503300	C	NB	0.00	0.12	0.89	NSPR
Crooked R	4	Meander2	1706030503300	C	NB	0.06	0.06	0.85	NSPR
Crooked R	4	Pond S2	1706030503300	C	NB	0.00	0.11	0.78	NSPR
Johns Cr	1	1	1706030501600	B	NB	2.16	0.00	10.82	NSPR
Johns Cr	1	2	1706030501600	B	NB	2.42	2.42	24.19	NSPR
Johns Cr	2	3	1706030502000	B	NB	1.52	0.43	9.75	NSPR
Johns Cr	2	4	1706030502000	B	NB	1.00	1.34	11.72	NSPR
Meadow Cr	.99	Meadow	1706030504800	C	NB	1.56	2.81	31.27	NSPR
Meadow Cr	.99	Mp2	1706030504800	B	NB	0.28	0.28	3.98	NSPR
Moose Butte Cr	.99	Mouth	1706030507800	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	.99	1	1706030504300	C	NB	0.17	0.00	1.19	NSPR
Newsome Cr	.99	4mi	1706030504300	C	NB	0.45	0.00	3.21	NSPR
Newsome Cr	.99	New Side	1706030504300	C	NB	6.20	0.00	44.26	NSPR
Newsome Cr	.99	Old Side	1706030504300	C	NB	1.47	1.47	21.05	NSPR
Newsome Cr	1	Mouth	1706030504300	C	NB	0.15	0.15	2.15	NSPR
Red R	1	Cnt1	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	2	Cnt2	1706030503800	B	NB	0.23	1.64	1.64	NSPR
Red R	2	Treat 2	1706030503800	B	NB	0.79	0.92	12.21	NSPR
						0.72	0.00	5.11	NSPR

Appendix B, Table 1. (Continued.)

<u>CLEARWATER RIVER DRAINAGE</u>									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead	Steelhead	Steelhead	Chinook	Chinook
					Steelhead Class W vs N A vs B	Age-1+ Density No/100m ²	Age-2+ Density No/100m ²	Age-0+ Density No/100m ²	Percent Carrying Capacity
Red R	4	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Treat 2	1706030503600	C	NB	0.00	0.05	0.50	NSPR
Red R	5	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Treat 2	1706030503600	C	NB	0.05	0.00	0.54	NSPR
Tennile Cr	.99	1	1706030503000	B	NB	2.30	1.67	19.88	NSPR
Tennile Cr	.99	2	1706030503000	B	NB	1.00	0.84	9.20	NSPR
Clearwater R Mainstem									
Eldorado Cr	.99	Six Bit	1706030603700	B	NB	2.29	0.00	22.94	NSPR
Eldorado Cr	Above	2LG	1706030603700	C	NB	0.81	0.14	9.47	NSPR
Eldorado Cr	Above	2M	1706030603700	C	NB	0.65	0.00	6.49	NSPR
Eldorado Cr	Upstream	8360	1706030603800	B	NB	0.65	0.65	9.30	0.00
Lolo Cr	Upstream	Run1	1706030603900	B	NB	0.76	0.00	5.45	NSPR
Lolo Cr	Upstream	Run7	1706030603900	B	NB	0.18	0.00	1.31	NSPR
Mission Cr	.99	1	1706030608400	B	WA	2.85	2.49	26.73	NSPR
Mission Cr	.99	2	1706030608400	B	WA	2.29	0.33	13.08	NSPR

Appendix B. Table 2. General parr monitoring section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacity for all sites sampled in 1998.

Stream Name	Strata	Section	EPA Reach No.	Channel Type	SALMON RIVER DRAINAGE			Chinook Class W vs N	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Chinook Priority Rating
					Steelhead Class W vs N	A vs B	Steelhead Age-2+ Density No/100m ²				
Snake R. above mouth Salmon R											
Granite Cr	-99	1	1706010101000	B	NA	3.25	3.50	33.77	WSPR	1.25	10.42
Granite Cr	-99	3	1706010101000	B	NA	4.75	3.17	39.57	WSPR	0.95	7.91
Sheep Cr	-99	1	1706010101300	B	WA	3.37	5.99	46.77	WSPR	1.12	2.55
Sheep Cr	-99	2	1706010101300	B	WA	8.80	6.02	74.13	WSPR	3.71	8.42
Salmon R. Headwaters											
Alturas Lk Cr	2	2B	1706020107700	C	NA	0.00	0.00	0.00	NSPR	0.00	0.00
Salmon R	10	10AB	1706020108400	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00
Salmon R	3	3B	1706020106900	B	NA	0.00	0.00	0.00	NSPR	0.10	0.23
Salmon R	3	3BRA	1706020106900	C	NA	0.69	0.30	7.08	NSPR	8.11	18.43
Salmon R	3	3SA	1706020106900	C	NA	0.00	0.00	0.00	NSPR	1.01	2.29
Salmon R	4	4SB	1706020107001	B	NA	0.00	0.00	0.00	NSPR	9.64	12.51
Salmon R	4	4B	1706020107100	C	NA	0.11	0.00	0.00	NSPR	0.26	0.34
Salmon R	5	5B	1706020107500	B	NA	0.00	0.00	0.00	NSPR	0.18	0.24
Salmon R	7	7A	1706020108200	C	NA	0.09	0.00	0.86	NSPR	0.17	0.22
Upper Salmon R											
Morgan Cr	Lower	Fence	1706020100200	B	NA	6.59	1.55	58.16	NSPR	2.71	22.62
Morgan Cr	Upper	Blm Camp	1706020100200	C	NA	16.26	4.12	145.58	NSPR	0.00	3
Redfish Lk Cr	-99	Lower	1706020106100	B	NA	0.53	0.35	6.32	NSPR	1.33	1.72
Redfish Lk Cr	-99	Weir Ds	1706020106100	B	NA	0.00	0.00	0.00	NSPR	0.30	3
Salmon R	1	Rbnsh-Bar	1706020103900	B	NA	0.79	0.16	6.78	WSUM	2.61	3.39
Salmon R	2	2B	1706020106000	B	NA	0.36	0.17	3.77	NSPR	2.59	5.88
Salmon R, E Fk	2	Above-Weir	1706020110700	C	NB	0.13	0.00	0.66	NSPR	0.28	0.24
Salmon R, E Fk	1	Above-Weir	1706020110700	B	NB	0.00	0.00	0.00	NSPR	0.62	0.58
Valley Cr	3	3	1706020105200	C	NA	0.33	0.17	5.00	NSPR	4.11	5.34
Valley Cr	3	A	1706020105300	C	NA	0.00	0.00	0.00	NSPR	3.76	8.54
Valley Cr	3	B	1706020105400	C	NA	0.00	0.00	0.00	NSPR	5.90	13.41
Valley Cr	6	B	1706020105500	B	NA	3.68	0.39	40.79	NSPR	0.66	1.50
Lemhi R											
Bear Valley Cr	HC1	Camp	1706020402600	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00
Big Springs Cr	LEM1	A	1706020408300	C	NA	20.81	2.50	116.55	NSPR	1.19	1.10
Hayden Cr	HC2	B	1706020402800	B	NA	0.14	0.43	2.86	NSPR	0.00	1
Hayden Cr	HC3	B	1706020402400	B	NA	1.95	0.78	13.66	NSPR	12.88	16.73
Lemhi R	1	2B	1706020403700	C	NA	4.30	7.11	57.06	NSPR	14.72	13.63
Lemhi R	1	LEM3A	1706020403700	C	NA	0.80	2.01	14.09	NSPR	1.41	1.30
Salmon R. Middle Fork											
Bear Valley Cr	3	A	1706020502700	C	WB	2.20	0.00	15.70	WSPR	5.43	7.06
Bear Valley Cr	5	A	1706020502800	C	WB	0.09	0.00	0.88	WSPR	2.29	2.98
Bear Valley Cr	7	Big-MDW-L	1706020502800	C	WB	0.00	0.00	0.00	WSPR	0.00	2
Bear Valley Cr	9	B	1706020502800	C	WB	0.00	0.00	0.00	WSPR	0.00	2
Beaver Cr	1	A	1706020503600	B	WB	2.00	0.25	16.04	WSPR	0.00	1
Beaver Cr	3	B	1706020503600	C	WB	1.62	0.00	11.56	WSPR	14.54	1

Appendix B, Table 2. (Continued.)

SALMON RIVER DRAINAGE												
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
Big Cr	Upper	Abv Hobik	1706020603000	B	WB	1.06	0.62	8.35	WSPR	0.79	1.80	1
Big Cr	Upper	Abv Jacobs	1706020603200	C	WB	0.20	0.00	0.99	WSPR	0.00	0.00	1
Big Cr	Upper	Logan Cr	1706020603000	B	WB	0.83	0.00	5.95	WSPR	2.40	2.23	1
Big Cr	Upper	Near Ford	1706020603200	C	WB	0.07	0.00	0.37	WSPR	17.33	39.38	1
Cape Horn Cr	1	A	1706020503400	C	WB	0.00	0.00	0.00	WSPR	0.16	0.14	1
Cape Horn Cr	2	B	1706020503400	C	WB	0.00	0.00	0.00	WSPR	3.39	3.14	1
Elk Cr	1	A	1706020502600	C	WB	0.00	0.00	0.00	WSPR	0.16	0.37	3
Elk Cr	1	B	1706020502600	C	WB	0.00	0.00	0.00	WSPR	0.00	0.00	3
Elk Cr	2	A	1706020502600	C	WB	0.20	0.00	2.04	WSPR	0.10	0.23	3
Elk Cr	2	B	1706020502600	C	WB	0.18	0.00	1.82	WSPR	4.99	11.34	3
Elk Cr	2	C	1706020502603	C	WB	0.00	0.00	0.00	WSPR	7.75	10.06	3
Marble Cr	Upper	Mar1	1706020506000	B	WB	0.62	0.37	4.99	WSPR	0.00	0.00	3
Marble Cr	Upper	Mar1b	1706020503000	B	WB	1.23	0.00	6.17	WSPR	0.00	0.00	3
Marble Cr	Upper	Mar2	17060205050501	B	WB	0.42	0.42	4.20	WSPR	2.52	5.73	3
Marble Cr	Upper	Sunnyside	170602050603	B	WB	0.00	0.00	0.00	WSPR	0.00	0.00	3
Marsh Cr	1	A	1706020503200	B	WB	0.00	0.00	0.00	WSPR	4.88	11.09	1
Marsh Cr	1	B	1706020503200	B	WB	5.85	2.45	41.52	WSPR	11.89	27.02	1
Monumental Cr	-99	MON1	1706020603800	B	WB	3.67	0.39	28.98	WSPR	0.00	0.00	2
Monumental Cr	-99	MON2	1706020603800	C	WB	9.83	1.09	54.61	WSPR	0.73	0.95	2
Monumental Cr	-99	MON3	1706020603800	C	WB	3.68	0.61	21.49	WSPR	0.00	0.00	2
Monumental Cr	-99	MON4	1706020603800	C	WB	0.45	0.23	3.39	WSPR	1.81	2.36	2
Monumental Cr, W Fk	-99	4B	1706020603700	C	WB	0.32	0.11	2.11	WSPR	1.79	2.33	2
Sulphur Cr	4		1706020502100	B	WB	0.00	0.00	0.00	WSPR	0.14	0.13	1
Salmon R Canyon												
Bargamin Cr	-99	1	1706020708000	B	WA	3.30	1.98	26.39	WSPR	0.00	0.00	3
Bargamin Cr	-99	2	1706020708000	B	WA	4.73	1.29	30.09	WSPR	0.00	0.00	3
Chamberlain Cr	-99	CHA1	1706020704200	B	WA	1.56	0.55	15.12	WSPR	17.02	22.11	1
Chamberlain Cr	-99	CHA2	1706020704400	C	WA	2.11	0.41	17.99	WSPR	17.87	23.21	1
Chamberlain Cr, W Fk	-99	CHA3	1706020704301	C	WA	0.13	0.40	3.81	WSPR	30.65	28.38	1
Chamberlain Cr, W Fk	-99	CHA4	1706020704301	B	WA	0.40	0.20	4.33	WSPR	3.23	2.99	1
Sheep Cr	-99	L1	1706020709300	B	WA	3.10	1.43	22.66	WSPR	17.29	39.30	1
Sheep Cr	-99	L2	1706020709300	B	WA	6.43	1.84	41.32	WSPR	0.26	0.60	1
Salmon R, South Fork												
Johnson Cr	Lower IV	L2	1706020804400	B	WB	3.34	1.09	44.24	NSUM	8.62	19.58	1
Johnson Cr	Lower IV	L3	1706020804400	B	WB	7.07	1.22	82.91	NSUM	34.91	79.34	1
Johnson Cr	Mid Lowlii	PW3B	1706020804700	B	WB	1.98	0.93	11.44	NSUM	0.41	0.93	1
Johnson Cr	Mid Upri li	PW3A	1706020804700	B	WB	1.14	1.08	2.83	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M1	1706020804703	C	WB	0.37	0.00	0.00	NSUM	1.28	2.91	1
Johnson Cr	Upper I	M2	1706020804702	C	WB	0.40	0.00	3.98	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M2 SIDE	1706020804702	C	WB	0.00	0.00	0.00	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M3	1706020804701	C	WB	0.00	0.28	0.28	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M3 SIDE	1706020804701	C	WB	0.00	0.00	0.00	NSUM	0.00	0.00	1
Johnson Cr	Upper I	PW1A	1706020804701	B	WB	2.70	0.59	23.50	WSUM	0.25	0.33	2
Lick Cr	-99	L1	1706020802000	B	WB	5.52	1.49	50.07	WSUM	0.11	0.15	2
Lick Cr	-99	L3	1706020802000	B	WB	0.00	0.00	0.00	NSPR	0.15	0.19	1
Rook Cr	Upper I	M1	1706020809800	C	WB	1.54	0.37	13.64	NSUM	29.52	67.08	1
Salmon R, S Fk	-99	11	1706020802900	B	WB	0.58	0.12	5.01	NSUM	11.20	25.46	1
Salmon R, S Fk	-99	14	1706020802400	B	WB	0.62	0.36	6.99	NSUM	9.30	21.14	1
Salmon R, S Fk	-99	16	1706020802200	B	WB							

Appendix B, Table 2. (Continued.)

SALMON RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum
Salmon R, S Fk	-99	5	1706020803400	B	WB	0.71	0.00	7.10	NSUM
Salmon R, S Fk	-99	5	1706020803400	B	WB	1.11	0.00	11.10	NSUM
Salmon R, S Fk	-99	7	1706020803300	B	WB	1.90	1.32	23.02	NSUM
Salmon R, S Fk	-99	Poverty Stolle1	1706020802900	C	WB	0.00	0.04	0.25	NSUM
Salmon R, S Fk	-99	Stolle1	1706020802900	C	WB	0.00	0.00	0.00	NSUM
Salmon R, S Fk	-99	Stolle2	1706020803600	C	WB	0.60	0.00	5.98	NSUM
Salmon R, S Fk	-99	Stolle2	1706020803600	C	WB	0.00	0.00	0.00	NSUM
Salmon R, S Fk	-99	3	1706020805102	B	WB	3.82	0.00	0.00	NSUM
Salmon R, S Fk, E Fk	-99	6	1706020804300	B	WB	0.37	1.57	53.87	NSUM
Salmon R, S Fk, E Fk	-99	6	1706020804200	B	WB	0.32	0.35	4.96	NSUM
Salmon R, S Fk, E Fk	-99	7	1706020805104	B	WB	2.81	0.35	22.56	NSUM
Salmon R, S Fk, Mp 35.8	-99	Sugar Cr Mp 35.8	1706020804000	B	WB	0.27	0.00	2.66	NSUM
Salmon R, S Fk, Mp 35.8	-99	Blw Jhnsn	1706020804000	B	WB	0.37	0.30	4.82	NSUM
Lower Salmon R	-99	1	1706020902800	B	WA	6.86	4.57	81.66	WSPR
Skookumchuck Cr	-99	2	1706020902800	B	WA	9.40	5.01	72.06	WSPR
Whitebird Cr	-99	1	1706020902900	B	WA	19.53	5.17	123.50	WSPR
Whitebird Cr, S Fk	-99	SF #2	1706020903000	B	WA	17.16	1.68	94.21	WSPR
Whitebird Cr, S Fk	-99	SF #3	1706020903000	B	WA	23.64	3.73	136.87	WSPR
Little Salmon R	-99	HAZ1	1706021002600	B	NA	5.34	2.91	41.26	NSPR
Hazard Cr	-99	HAZ2	1706021003000	B	NA	4.62	1.54	30.82	NSPR
Rapid R	Adv W Fk	Castle Cr	170602100400	B	WA	1.50	1.82	16.62	NSUM
Rapid R	Adv W Fk	Copper Cr	170602100400	B	WA	0.89	2.22	15.56	NSUM
Rapid R	Adv W Fk	Wyant	170602100400	B	WA	1.85	1.07	14.59	NSUM
Rapid R	Blw W Fk	6	170602100400	B	WA	4.40	2.00	32.00	NSUM
Rapid R	Blw W Fk	7	170602100200	B	WA	5.49	3.63	46.12	NSUM
Rapid R	Blw W Fk	Rap2	170602100200	B	WA	5.33	2.89	41.08	NSUM
Rapid R, W Fk	Rap1	Blw Falls	170602100300	B	WA	2.73	2.14	24.32	NSUM
Selway R	-99	1	1706030102400	B	WB	0.43	0.36	3.93	NSPR
Bear Cr	-99	2	1706030102400	B	WB	1.00	0.00	5.02	NSPR
Bear Cr	-99	Cactus	1706030101900	B	WB	0.89	1.11	10.02	NSPR
Deep Cr	-99	Scimitar	1706030101900	B	WB	0.00	1.46	7.32	NSPR
Gedney Cr	-99	1	1706030204000	B	WB	3.83	3.50	36.68	NSPR
Gedney Cr	-99	2	1706030204000	B	WB	2.56	1.10	18.26	NSPR
Little Clearwater R	-99	1	1706030101100	B	WB	0.21	0.42	3.15	NSPR
Little Clearwater R	-99	2	1706030101100	B	WB	0.96	0.38	6.73	NSPR
Meadow Cr	-99	1	1706030200500	B	WB	1.31	1.13	40.65	NSPR
Meadow Cr	-99	2	1706030200500	B	WB	0.12	0.40	8.72	NSPR
Moose Cr	-99	1	1706030201400	B	WB	0.05	0.62	3.35	NSPR
Moose Cr	-99	2	1706030203000	B	WB	0.05	0.00	0.23	NSPR
Moose Cr, E Fk	-99	3	1706030201500	B	WB	0.17	1.09	6.32	NSPR
Moose Cr, N Fk	-99	4	1706030203000	B	WB	0.00	0.00	0.00	NSPR
Running Cr	-99	1	1706030100800	B	WB	0.00	1.21	3.87	NSPR
Running Cr	-99	2	1706030100801	B	WB	5.79	0.00	28.97	NSPR

Appendix B, Table 2. (Continued.)

SALMON RIVER DRAINAGE												
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
Three Links Cr	.99	1	1706030203900	B	WB	5.15	3.35	42.46	NSPR	0.00	0.00	4
White Cap Cr	3	3	1706030102100	B	WB	0.74	1.48	11.13	NSPR	23.37	53.11	1
Lochsa R												
Brushy Fk Cr	3	1	1706030304300	B	WB	1.67	4.72	31.94	NSPR	4.17	5.41	1
Brushy Fk Cr	3	2	1706030304300	B	WB	3.85	2.33	30.93	NSPR	4.20	5.46	1
Crooked Fk Cr	1	2A	1706030307000	B	WB	0.00	0.00	0.00	NSPR	0.00	0.00	1
Crooked Fk Cr	2	3A	1706030304700	B	WB	1.72	0.00	8.61	NSPR	0.00	0.00	1
Crooked Fk Cr	3	1	1706030304300	B	WB	0.64	0.26	4.50	NSPR	7.33	9.52	1
Crooked Fk Cr	3	2B	1706030304200	B	WB	3.43	1.56	24.91	NSPR	5.81	7.55	1
Crooked Fk Cr	4	1B	1706030304600	B	WB	0.59	0.21	4.01	NSPR	5.94	7.71	1
Fish Cr	.99	1	1706030305400	B	WB	7.42	3.20	106.21	NSPR	10.52	9.74	1
Fish Cr	.99	2	1706030305400	B	WB	11.14	3.97	151.12	NSPR	7.33	6.78	1
Hopeful Cr	1	1-Boogiedn	1706030304701	B	WB	0.79	2.18	14.89	NSPR	0.00	0.00	3
Lochsa R	.99	L1	1706030308000	B	WB	0.01	0.04	0.35	NSPR	0.51	1.16	3
Lochsa R	.99	L4	1706030308000	B	WB	0.09	0.02	0.80	NSPR	2.48	5.64	3
Post Office Cr	.99	1	1706030308000	B	WB	8.50	0.28	43.91	NSPR	0.00	0.00	3
Post Office Cr	.99	2	1706030308000	B	WB	6.99	0.54	37.64	NSPR	0.00	0.00	3
Warm Springs Cr	.99	1	1706030301900	B	WB	0.68	0.68	6.76	NSPR	1.35	1.76	3
Clearwater R, S, Fk												
American R	2	1	1706030504100	C	NB	1.52	0.00	10.84	NSPR	36.67	47.62	2
American R	3	2	1706030504100	C	NB	0.16	0.16	2.24	NSPR	58.36	75.79	2
Crooked R	1	1	1706030503301	B	NB	0.12	0.00	0.89	NSPR	0.00	0.00	1
Crooked R	1	1	1706030503301	B	NB	0.17	0.00	1.23	NSPR	0.00	0.00	1
Crooked R	1	1	1706030503301	B	NB	0.00	0.00	0.00	NSPR	4.91	11.15	1
Crooked R	1	Pond-A	1706030503301	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1
Crooked R	1	Sill-Log-B	1706030503301	B	NB	0.21	0.00	1.53	NSPR	0.00	0.00	1
Crooked R	2	Control 1	1706030503300	B	NB	0.43	0.11	3.87	NSPR	18.43	23.94	1
Crooked R	2	Control 2	1706030503300	B	NB	0.12	0.00	0.82	NSPR	23.61	30.66	1
Crooked R	2	Pond U	1706030503300	C	NB	0.53	0.00	3.77	NSPR	128.10	166.37	1
Crooked R	2	Treat 1	1706030503300	B	NB	0.44	0.22	4.71	NSPR	12.42	16.13	1
Crooked R	2	Treat 2	1706030503300	B	NB	0.00	0.32	2.30	NSPR	9.22	11.97	1
Crooked R	3	Natural 1	1706030503300	C	NB	0.34	0.00	1.72	NSPR	23.69	53.84	1
Crooked R	3	Natural 2	1706030503300	C	NB	1.65	0.14	12.75	NSPR	6.32	8.20	1
Crooked R	4	Meander 1	1706030503300	C	NB	0.19	0.00	0.93	NSPR	30.65	69.65	1
Crooked R	4	Pond S1	1706030503300	C	NB	0.00	0.00	0.00	NSPR	10.28	13.36	1
Crooked R	4	Treat 1	1706030503300	B	NB	0.27	0.14	2.93	NSPR	2.60	3.38	1
Crooked R	4	Can 2	1706030503300	B	NB	0.63	0.08	5.08	NSPR	6.00	7.80	1
Crooked R	4	Can 3	1706030503300	B	NB	0.00	0.72	5.15	NSPR	2.41	5.47	1
Crooked R	4	Orogrande 1	1706030503301	B	NB	1.06	0.61	8.34	NSPR	0.00	0.00	1
Crooked R, E Fk	EF1	1706030507200	B	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1	
Crooked R, E Fk	EF2	1706030507200	B	NB	1.64	0.27	9.59	NSPR	0.00	0.00	1	
Crooked R, W Fk	WF1	1706030503302	B	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1	
Crooked R, W Fk	WF2	1706030503302	B	NB	4.35	1.39	28.69	NSPR	2.77	6.30	3	
Johns Cr	1	1	1706030501600	B	NB	3.15	0.57	18.60	NSPR	1.37	3.10	3
Johns Cr	2	2	1706030501600	B	NB	2.89	1.73	23.09	NSPR	0.00	0.00	3
Johns Cr	2	3	1706030502000	B	NB	1.06	0.42	10.57	NSPR	42.72	97.08	2
Johns Cr	2	4	1706030502000	B	NB	1.57	2.51	29.16	NSPR	175.55	398.97	2
Newsome Cr	.99	1	1706030504300	C	NB	2.09	0.70	19.89	NSPR	136.10	309.33	2
Newsome Cr	.99	2	1706030504300	C	NB							
Newsome Cr	.99	3	1706030504300	C	NB							

Appendix B, Table 2. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum
Newsome Cr	.99	Old Side	1706030504300	C	NB	0.62	1.45	14.77	NSPR
Newsome Cr	Mouth	Mouth	1706030504300	C	NB	0.00	0.00	0.00	NSPR
Red R	1	Cntl 1	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	1	Cntl 2	1706030503800	C	NB	1.29	0.00	9.21	NSPR
Red R	2	Cntl 2	1706030503800	B	NB	1.01	0.00	7.20	NSPR
Red R	2	Treat 2	1706030503800	B	NB	2.29	0.00	16.35	NSPR
Red R	4	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Treat 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Treat 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Tennile Cr	.99	1	1706030503000	B	NB	3.86	1.76	28.08	NSPR
Tennile Cr	.99	2	1706030503000	B	NB	4.23	0.71	24.69	NSPR
Clearwater R. Mainstem									
Eldorado Cr	.99	SIX BIT	1706030603700	B	NB	0.00	0.00	0.00	NSPR
Eldorado Cr	Above	1HG	1706030603700	C	NB	3.25	0.37	36.23	NSPR
Eldorado Cr	Above	2LG	1706030603700	C	NB	0.14	0.00	1.44	NSPR
Eldorado Cr	Above	2M	1706030603700	C	NB	0.00	0.00	0.00	NSPR
Eldorado Cr	Below	1B	1706030603700	B	NB	0.94	0.24	11.81	NSPR
Lolo Cr	Upstream	8303	1706030603900	C	NB	0.00	0.97	6.94	NSPR
Lolo Cr	Upstream	8360	1706030603800	B	NB	0.45	0.23	4.82	NSPR
Lolo Cr	Upstream	RUN1	1706030603900	B	NB	0.98	0.70	11.99	NSPR
Lolo Cr	Upstream	RUN7	1706030603900	B	NB	0.00	0.00	0.00	NSPR

Appendix B. Table 3. General parr monitoring section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacity for all sites sampled in 1999.

Stream Name	Strata	Section	EPA Reach No.	Channel Type	SALMON RIVER DRAINAGE				Chinook Class W vs N	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Chinook Priority Rating	
					Steelhead Class W vs N	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Steelhead Age-1+ Density No/100m ²					
Snake R. Above Mouth Salmon R													
Granite Cr	'99	1	1706010101000	B	NA	8.37	2.79	55.83	WSPR	0.00	0.00	3	
Granite Cr	'99	3	1706010101000	B	NA	10.02	5.63	78.25	WSPR	0.00	0.00	3	
Sheep Cr	'99	1	1706010101300	B	WA	9.50	6.61	80.53	WSPR	0.00	0.00	1	
Sheep Cr	'99	2	1706010101300	B	WA	15.55	5.49	105.19	WSPR	0.00	0.00	1	
Salmon R. Headwaters													
Alturas Lk Cr	2	2B	1706020107700	C	NA	0.10	0.00	0.70	NSPR	0.00	0.00	1	
Salmon R	10	10AB	1706020108400	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	1	
Salmon R	3	3B	1706020106900	B	NA	0.03	0.00	0.24	NSPR	1.73	3.93	1	
Salmon R	3	3BRA	1706020106900	C	NA	0.03	0.03	0.39	NSPR	0.98	2.23	1	
Salmon R	5	5A	1706020107100	B	NA	0.00	0.05	0.39	NSPR	0.65	0.84	1	
Upper Salmon R													
Morgan Cr	Lower	Fence	1706020100200	B	NA	3.55	0.51	29.01	NSPR	2.03	16.92	3	
Morgan Cr	Upper	BLM Camp	1706020102000	C	NA	9.87	4.37	101.72	NSPR	0.00	0.00	3	
Moyer Cr	Above	MO1	1706020302300	C	NA	4.28	1.76	30.20	NSPR	0.00	0.00	3	
Moyer Cr	Above	New Sec	1706020302300	B	NA	4.99	0.42	27.03	NSPR	0.00	0.00	3	
Panther Cr	Above	PC10	1706020302200	C	NA	0.20	0.00	1.01	NSPR	0.00	0.00	3	
Panther Cr	Above	PC10	1706020302000	C	NA	1.75	1.46	16.07	NSPR	0.00	0.00	3	
Panther Cr	Ds-Bigd	PC9	1706020301000	B	NA	0.53	1.87	12.03	NSPR	0.00	0.00	3	
Panther Cr	Ds-Blackd	PC6	1706020301400	B	NA	2.11	3.52	56.35	NSPR	0.00	0.00	3	
Panther Cr	Ds-Clear	PC1	1706020300600	B	NA	3.60	1.63	87.17	NSPR	0.16	1.36	3	
Redfish Lk Cr	'99	Lower	1706020106100	B	NA	0.33	0.07	2.84	NSPR	0.00	0.00	3	
Redfish Lk Cr	'99	Weir Ds	1706020106100	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	3	
Salmon R	1	Rhnsn-Bar	1706020103900	B	NA	1.49	0.21	12.16	WSUM	0.43	0.55	1	
Salmon R	2	2B	1706020106000	B	NA	0.16	0.26	3.03	NSPR	1.27	2.89	1	
Salmon R, E FK	Above-Weir	2	1706020110700	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1	
Salmon R, E FK	Above-Weir	3	1706020110700	B	NB	0.00	0.00	0.00	NSPR	0.00	0.00	1	
Salmon R, E FK	Blw Weir	Fox Cr	1706020109800	C	NB	0.00	0.00	0.00	NSPR	1.50	1.95	1	
Salmon R, E FK	Blw Weir	Ziegler Hl	1706020109800	B	NB	0.38	0.00	1.91	NSPR	0.00	0.00	1	
Salmon R, N FK	2	Dahlonega	1706020307700	B	NA	7.77	2.20	49.85	NSPR	1.88	2.45	1	
Salmon R, N FK	2	Hughes	1706020307500	B	NA	1.79	1.07	20.45	NSPR	1.34	1.74	1	
Thompson Cr	Above	Two-Pole	1706020103500	B	NA	2.75	0.55	23.59	NSPR	0.00	0.00	3	
Thompson Cr	Below	1	1706020103500	B	NA	6.10	1.78	56.29	NSPR	2.23	5.07	3	
Valley Cr	1	B	1706020105200	C	NA	0.00	0.28	2.83	NSPR	2.12	2.75	1	
Valley Cr	3	A	1706020105300	C	NA	0.13	0.00	1.33	NSPR	17.38	39.49	1	
Valley Cr	3	B	1706020105400	B	NA	0.00	0.00	0.00	NSPR	34.80	79.09	1	
Valley Cr	6	B	1706020105500	B	NA	0.00	0.00	0.00	NSPR	0.55	1.26	1	
Lemhi R													
Bear Valley Cr	Hc1	B	1706020402600	C	NA	0.00	0.16	0.81	NSPR	0.00	0.00	3	
Bear Valley Cr	Hc1	Camp	1706020402600	B	NA	0.00	0.00	0.00	NSPR	0.00	0.00	3	
Big Springs Cr	A		1706020408300	C	NA	16.05	5.17	106.14	NSPR	0.00	0.00	1	
Hayden Cr	Hc2	B	1706020402800	B	NA	1.32	1.10	12.12	NSPR	1.32	1.72	1	
Hayden Cr	Hc3	B	1706020402400	B	NA	0.15	0.15	2.32	NSPR	0.00	0.00	1	

Appendix B, Table 3. (Continued.)

SALMON RIVER DRAINAGE												
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Svs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
Lemhi R	1	Lem3a	1706020403700	C	NA	0.93	0.65	7.94	NSPR	0.09	0.09	1
Lemhi R	1	Pwrhs L58a	1706020403500	C	NA	4.62	2.10	33.60	NSPR	0.70	0.65	1
Lemhi R	1	B	1706020403700	C	NA	2.94	1.81	23.74	NSPR	1.24	1.15	1
Pahsimeroi R	1	Ponds	1706020200500	C	NA	0.34	0.67	5.06	NSUM	0.00	0.00	1
Pahsimeroi R	Lower	Dwinlane	1706020200100	C	NA	0.96	2.42	16.86	NSUM	3.72	4.84	1
Pahsimeroi R	Weir	Weir	1706020200100	C	NA	1.11	5.40	32.54	NSUM	2.22	2.89	1
Salmon R, Middle Fork												
Bear Valley Cr	2	A	1706020502500	WB	0.29	0.42	7.03	WSPR	6.33	8.22	2	
Bear Valley Cr	2	B	1706020502500	WB	0.12	0.47	5.92	WSPR	2.57	3.33	2	
Bear Valley Cr	3	A	1706020502700	C	WB	2.61	2.00	32.94	WSPR	26.36	34.24	2
Bear Valley Cr	5		1706020502800	C	WB	0.41	2.03	24.31	WSPR	7.16	9.30	2
Bear Valley Cr	7	Big-Mdw-L	1706020502800	C	WB	0.38	0.64	10.19	WSPR	0.00	0.00	2
Beaver Cr	1	A	1706020503600	B	WB	0.59	0.21	5.75	WSPR	2.90	3.77	1
Beaver Cr	3	B	1706020503600	C	WB	0.07	0.00	0.47	WSPR	13.20	12.23	1
Beaver Cr	3	L1	1706020601700	C	WB	1.20	1.86	15.32	WSPR	0.30	0.68	1
Big Cr	Middle	Taylor 1	1706020601100	C	WB	0.00	0.05	0.26	WSPR	2.87	6.53	1
Big Cr	Upper	Abv Hogbk	1706020630000	B	WB	0.46	0.40	4.32	WSPR	0.53	1.21	1
Big Cr	Upper	Abv Jacobs	1706020637000	C	WB	0.00	0.00	0.00	WSPR	0.00	0.00	1
Big Cr	Upper	Logan Cr	1706020630000	B	WB	0.13	0.13	1.82	WSPR	0.13	0.12	1
Big Cr	Upper	Near Ford	1706020632000	C	WB	0.00	0.00	0.00	WSPR	11.71	26.61	1
Camas Cr	1		1706020652000	C	WB	0.00	0.00	0.00	WSPR	2.65	3.44	3
Camas Cr	2		1706020652000	C	WB	0.00	0.00	0.00	WSPR	0.00	0.00	3
Camas Cr	99	CAM1	1706020652000	B	WB	4.34	4.09	42.13	WSPR	3.58	4.64	3
Cape Horn Cr	1	A	1706020503400	C	WB	0.00	0.14	1.00	WSPR	57.68	53.41	1
Cape Horn Cr	2	B	1706020503400	C	WB	0.00	0.00	0.00	WSPR	62.57	57.94	1
Chamberlain Cr	99	CHA1	1706020704200	B	WA	1.21	1.70	20.81	WSPR	3.40	4.42	1
Chamberlain Cr	99	CHA4	1706020704400	C	WA	1.06	0.85	13.59	WSPR	2.33	3.02	1
Chamberlain Cr, W Fk	99	CHA2	1706020704301	C	WA	1.31	0.22	10.89	WSPR	0.00	0.00	1
Chamberlain Cr, W Fk	99	CHA3	1706020704301	B	WA	1.26	0.00	8.97	WSPR	0.00	0.00	1
Knapp Cr	1	A	1706020503503	C	WB	0.00	0.00	0.00	WSPR	9.61	8.90	1
Knapp Cr	1	B	1706020503503	C	WB	0.00	0.00	0.00	WSPR	8.72	8.07	3
Knapp Cr	1	Beaver dam	1706020503503	C	WB	0.00	0.43	3.06	WSPR	1.93	1.79	1
Knapp Cr	1	Campsite	1706020503503	C	WB	0.00	0.00	0.00	WSPR	0.56	0.51	1
Knapp Cr	1	Ds Div	1706020503503	C	WB	0.00	0.86	6.12	WSPR	1.93	1.78	1
Knapp Cr	1	Lckd Fence	1706020503503	C	WB	0.00	0.00	0.00	WSPR	3.66	3.39	1
Loon Cr	99	L2-Run	1706020505000	B	WB	0.00	0.00	0.00	WSPR	0.41	0.93	3
Loon Cr	3		1706020505000	B	WB	0.00	1.39	6.96	WSPR	4.64	10.55	3
Loon Cr	1		1706020505000	C	WB	0.00	0.00	0.00	WSPR	0.55	1.26	3
Marsh Cr	1	A	1706020503200	B	WB	0.95	1.07	10.12	WSPR	23.10	52.50	1
Marsh Cr	1	B	1706020503200	B	WB	1.04	1.04	10.39	WSPR	18.02	40.96	1
Marsh Cr	3	A	1706020506300	C	WB	0.00	0.00	0.00	WSPR	21.32	27.68	1
Marsh Cr	4	B	1706020503500	C	WB	0.00	0.06	0.62	WSPR	38.70	50.26	1
Marsh Cr	5	A	1706020503501	C	WB	0.07	0.00	0.74	WSPR	38.88	50.49	1
Monumental Cr	99	MON1	1706020603800	B	WB	0.05	0.05	0.67	WSPR	0.00	0.00	2
Monumental Cr	99	MON2	1706020603800	C	WB	0.96	1.92	14.44	WSPR	5.11	0.80	2
Monumental Cr	99	MON3	1706020603800	C	WB	0.61	0.41	4.51	WSPR	0.61	5.93	2
Monumental Cr	99	MON5	1706020603600	C	WB	0.09	0.19	1.40	WSPR	4.56	8.94	2
Monumental Cr, W Fk	99	MON4	1706020603701	C	WB	0.00	0.18	0.88	WSPR	0.88	11.61	2

Appendix B, Table 3. (Continued.)

Stream Name	Strata	Section	EPA Reach No.	Channel Type	SALMON RIVER DRAINAGE				Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating	
					Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity				
Salmon R, South Fork												
Horse Cr	.99	L1	1706020707000	B	WA	4.27	1.54	29.07	WSPR	0.17	0.22	3
Horse Cr	.99	L2	1706020707000	B	WA	5.58	2.64	41.13	WSPR	0.00	0.00	3
Sheep Cr	.99	L1	1706020709300	B	WA	5.30	1.33	33.14	WSPR	3.01	6.85	1
Sheep Cr	.99	L2	1706020709300	B	WA	4.81	1.18	29.95	WSPR	0.10	0.22	1
Johnson Cr	Lower IV	L2	1706020804400	B	WB	5.11	3.45	85.66	NSUM	6.22	14.13	1
Johnson Cr	Lower IV	L3	1706020804400	B	WB	5.10	4.07	91.68	NSUM	19.53	44.39	1
Johnson Cr	Mid Lowii	PW3B	1706020804700	B	WB	1.29	0.62	19.04	NSUM	0.00	0.00	1
Johnson Cr	Mid Upr li	PW3A	1706020804700	B	WB	1.63	0.96	12.93	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M1	1706020804703	C	WB	0.00	0.00	0.00	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M2	1706020804702	C	WB	0.12	0.00	1.23	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M2 SIDE	1706020804702	C	WB	0.00	0.00	0.00	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M3	1706020804701	C	WB	0.41	0.07	4.83	NSUM	0.00	0.00	1
Johnson Cr	Upper I	M3 SIDE	1706020804701	C	WB	0.00	0.00	0.00	NSUM	0.00	0.00	1
Johnson Cr	Upper I	PW1A	1706020804701	B	WB	0.10	0.00	1.02	NSUM	0.00	0.00	1
Burgdorf	.99	Lake Cr	1706020801700	C	WB	0.42	0.00	2.99	WSUM	25.13	23.27	1
Willow Cr	.99	L1	1706020801700	C	WB	0.63	0.00	4.49	WSUM	8.18	7.57	1
Lick Cr	.99	L3	1706020802000	B	WB	5.02	1.48	46.37	WSUM	0.00	0.00	2
Lick Cr	.99	L3	1706020802000	B	WB	4.09	1.84	42.36	WSUM	0.00	0.00	2
Rock Cr	Upper I	M1	1706020809800	C	WB	0.00	0.00	0.00	NSPR	0.00	0.00	1
Salmon R, S FK	.99	11	1706020802900	B	WB	0.92	0.92	13.16	NSUM	16.16	36.72	1
Salmon R, S FK	.99	14	1706020802400	B	WB	0.33	0.14	3.33	NSUM	5.96	13.55	1
Salmon R, S FK	.99	16	1706020802200	B	WB	0.75	0.72	10.55	NSUM	0.85	1.94	1
Salmon R, S FK	.99	5	1706020803400	B	WB	0.00	0.00	0.00	NSUM	30.22	68.69	2
Salmon R, S FK	.99	5	1706020803400	B	WB	1.28	2.10	24.14	NSUM	35.34	45.90	1
Poverty	7	Stolle1	1706020802900	C	WB	0.00	0.00	0.00	NSUM	19.03	43.26	1
Stolle1	7	Stolle2	1706020803600	C	WB	0.08	0.00	0.85	NSUM	10.91	24.81	1
Salmon R, S FK	.99	3	1706020803600	B	WB	1.58	3.95	55.25	NSUM	47.19	107.25	2
Salmon R, S FK	.99	6	1706020803300	B	WB	0.05	0.40	3.25	NSUM	1.34	3.05	1
Salmon R, S FK	.99	7	1706020803300	B	WB	1.33	3.78	36.52	NSUM	0.10	0.23	1
Salmon R, S FK	.99	7	1706020804200	B	WB	0.18	0.54	7.14	NSUM	0.00	0.00	1
Salmon R, S FK	.99	7	1706020805104	B	WB	12.16	6.08	130.27	NSUM	4.66	10.59	1
Abv Jhnsn	.99	Sugar Cr	1706020804000	B	WB	0.37	0.00	2.62	NSUM	0.00	0.00	1
Blw Jhnsn	.99	MP .35 .8	1706020807400	C	WB							
Sand Cr	Upper I	M2	1706020807400	C	WB							
Lower Salmon R												
Little State Cr	.99	1	1706020902600	B	NA	1.68	2.94	23.10	WSPR	0.42	0.95	2
Shookumchuck Cr	.99	1	1706020902800	B	WA	0.43	2.56	21.33	WSPR	0.00	0.00	3
Shookumchuck Cr	.99	2	1706020902800	B	NA	1.02	2.03	15.24	WSPR	0.00	0.00	3
State Cr	.99	1	1706020902500	B	NA	7.26	0.56	39.12	WSPR	2.79	6.35	2
State Cr	.99	2	1706020902500	B	NA	8.36	1.83	50.97	WSPR	8.97	20.39	2
State Cr	.99	3	1706020902500	B	NA	6.39	1.31	38.51	WSPR	3.77	8.57	2
State Cr	.99	4	1706020902500	B	NA	2.92	1.83	23.73	WSPR	0.37	0.83	2
State Cr	.99	5	1706020902513	B	NA	2.22	0.29	12.51	WSPR	1.21	2.76	2
State Cr	.99	6	1706020902500	B	NA	2.43	2.29	23.58	WSPR	1.35	3.06	2
Whitebird Cr	.99	1	1706020902900	B	WA	5.26	0.00	26.29	WSPR	0.00	0.00	1
Whitebird Cr, S FK	.99	SF-#2	1706020903000	B	WA	9.88	0.35	51.15	WSPR	0.00	0.00	1
Whitebird Cr, S FK	.99	SF-#3	1706020903000	B	WA	7.12	0.00	49.87	WSPR	0.00	0.00	1

Appendix B, Table 3. (Continued.)

SALMON RIVER DRAINAGE											
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spv vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
Little Salmon R											
Boulder Cr	Above	1	1706021000900	B	NA	8.32	1.41	48.62	NSPR	0.00	0.00
Boulder Cr	Above	2	1706021000900	B	NA	2.83	3.04	29.33	NSPR	0.00	0.00
Boulder Cr	Below	5	1706021000900	B	NA	6.81	9.37	80.93	NSPR	1.49	3.39
Hazard Cr	'99	HAZ1	1706021002600	B	NA	5.77	3.91	48.45	NSPR	0.00	0.00
Hazard Cr	'99	HAZ2	1706021003000	B	NA	2.23	3.21	27.20	NSPR	0.00	0.00
Rapid R	Adv W Fk	Castle Cr	1706021000400	B	WA	1.62	0.95	12.85	NSUM	0.00	0.00
Rapid R	Adv W Fk	Copper Cr	1706021000400	B	WA	0.19	1.14	6.66	NSUM	0.00	0.00
Rapid R	Adv W Fk	Wyant	1706021000400	B	WA	1.17	1.51	13.36	NSUM	0.00	0.00
Rapid R	Blw W Fk	6	1706021000400	B	WA	3.05	3.22	31.33	NSUM	0.00	0.00
Rapid R	Blw W Fk	7	1706021000200	B	WA	4.32	3.46	38.88	NSUM	0.65	1.47
Rapid R	Blw W Fk	Rap2	1706021000200	B	WA	2.48	4.68	35.82	NSUM	0.07	0.16
Rapid R, W Fk	Blw Falls	Rap1	1706021000300	B	WA	1.73	3.17	24.51	NSUM	0.00	0.00
CLEARWATER RIVER DRAINAGE											
Selway R											
Bear Cr	'99	1	1706030102400	B	WB	0.00	0.44	2.19	-	0.57	3
Bear Cr	'99	2	1706030102400	B	WB	0.41	0.00	2.04	NSPR	0.51	0.66
Deep Cr	'99	Cactus	1706030101900	B	WB	2.86	1.02	19.38	NSPR	0.00	0.00
Gedney Cr	'99	Scimitar	1706030101900	B	WB	1.24	0.69	9.67	NSPR	0.55	1.26
Gedney Cr	'99	1	1706030204000	B	WB	2.33	2.33	23.33	NSPR	0.85	1.10
Little Clearwater R	'99	2	1706030204000	B	WB	4.45	4.18	43.14	NSPR	0.28	0.36
Little Clearwater R	'99	1	1706030101100	B	WB	0.90	0.60	7.49	NSPR	0.00	0.00
Moose Cr	'99	2	1706030101100	B	WB	0.86	0.00	4.32	NSPR	0.00	0.00
Moose Cr	'99	1	1706030201400	B	WB	0.28	0.35	3.19	NSPR	0.00	0.00
Moose Cr, E Fk	'99	2	1706030203000	B	WB	0.13	0.00	0.64	NSPR	0.13	0.29
Selway R	'99	3	1706030201500	B	WB	1.08	0.86	9.70	NSPR	0.06	0.13
Selway R	'99	2	1706030101300	C	WB	0.47	0.13	3.01	NSPR	4.52	4.18
Selway R	'99	1	1706030101400	B	WB	0.35	0.14	2.48	NSPR	0.07	0.16
Selway R	'99	2	1706030101300	B	WB	0.38	0.15	2.69	NSPR	0.00	0.00
Selway R	'99	1	1706030101300	C	WB	0.27	0.06	1.67	NSPR	0.15	0.14
Three Links Cr	'99	1	1706030203900	B	WB	2.02	2.52	22.70	NSPR	0.00	0.00
White Cap Cr	3	1	1706030102100	B	WB	0.52	0.00	2.58	NSPR	0.00	0.00
White Cap Cr	3	2	1706030102100	B	WB	0.31	0.00	1.56	NSPR	0.00	0.00
White Cap Cr	3	3	1706030102100	B	WB	0.52	0.45	4.85	NSPR	0.45	1.03
Lochsa R											
Brushy Fk Cr	3	1	1706030304300	B	WB	2.50	0.83	16.68	NSPR	0.00	0.00
Brushy Fk Cr	3	2	1706030304300	B	WB	1.28	0.57	9.22	NSPR	0.00	0.00
Crooked Fk Cr	1	2A	1706030307000	B	WB	0.93	0.62	7.77	NSPR	0.23	0.30
Crooked Fk Cr	2	3A	1706030304700	B	WB	2.05	0.00	10.26	NSPR	0.53	0.69
Crooked Fk Cr	2	4A	1706030304700	B	WB	1.06	0.00	5.32	NSPR	0.49	0.64
Crooked Fk Cr	3	1	1706030304300	B	WB	0.29	0.20	2.45	NSPR	0.00	0.00
Crooked Fk Cr	3	2	1706030304200	C	WB	0.40	0.54	4.68	NSPR	0.00	0.00
Fish Cr	'99	1	1706030305400	B	WB	5.15	3.51	86.57	NSPR	0.00	0.00
Fish Cr	'99	2	1706030305400	B	WB	6.43	7.39	138.15	NSPR	0.00	0.00
Hopeful Cr	1	1-Boogiedn	1706030304701	B	WB	3.48	0.41	19.45	NSPR	0.00	0.00
Post Office Cr	'99	1	1706030308000	B	WB	1.51	0.00	7.56	NSPR	0.00	0.00
Post Office Cr	'99	2	1706030308000	B	WB	4.93	0.00	24.67	NSPR	0.00	0.00

Appendix B, Table 3. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spv vs Sum
Warm Springs Cr	.99	1	1706030301900	B	NB	0.51	0.26	3.84	NSPR
White Sand Cr	Lower	WS1	1706030302700	B	WB	0.23	0.02	1.29	NSPR
Clearwater R, South Fork									
American R	2	1	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	3	2	1706030504100	C	NB	0.40	0.93	9.52	NSPR
Crooked R	1	Control	1706030503301	B	NB	0.00	0.00	0.00	NSPR
Crooked R	1	Sill-Log-B	1706030503301	B	NB	0.36	0.18	3.81	NSPR
Crooked R	2	Control1	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	2	Control1	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	2	Control1	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	2	Control 2	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	2	Control 2	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	2	Treat2	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	3	Natural1	1706030503300	C	NB	0.07	0.00	0.37	NSPR
Crooked R	3	Natural3	1706030503300	C	NB	0.00	0.00	0.00	NSPR
Crooked R	3	Meander 1	1706030503300	C	NB	0.00	0.00	0.00	NSPR
Crooked R	4	Pond S2	1706030503300	C	NB	0.00	0.00	0.00	NSPR
Crooked R	4	Can 2	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	4	Can 3	1706030503300	B	NB	0.00	0.00	0.00	NSPR
Crooked R	4	Orogrande 1	1706030503301	B	NB	0.37	0.00	2.63	NSPR
Crooked R, E Fk	1	EF1	1706030507200	B	NB	0.00	0.00	0.00	NSPR
Crooked R, E Fk	1	EF2	1706030507200	B	NB	0.00	0.00	0.00	NSPR
Crooked R, W Fk	H	WF1	1706030503302	B	NB	0.00	0.29	1.46	NSPR
Crooked R, W Fk	H	WF2	1706030503302	B	NB	0.21	0.00	1.06	NSPR
Johns Cr	2	3	1706030502000	B	NB	1.71	0.47	10.90	NSPR
Johns Cr	2	4	1706030502000	B	NB	5.82	1.82	38.19	NSPR
Moose Butte Cr	.99	Mouth	170603050305	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	.99	4mi	1706030504300	C	NB	0.22	0.43	4.63	NSPR
Newsome Cr	.99	New Side	1706030504300	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	.99	Old Side	1706030504300	C	NB	0.00	0.30	2.17	NSPR
Newsome Cr	.99	Transect 11	1706030504300	C	NB	4.40	0.00	31.45	NSPR
Red R	1	Cntl 1	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	1	Cntl 2	1706030503800	C	NB	0.35	0.00	2.52	NSPR
Red R	2	Cntl 2	1706030503800	B	NB	0.00	0.00	0.00	NSPR
Red R	2	Treat 2	1706030503800	B	NB	0.28	0.09	2.71	NSPR
Red R	4	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Treat 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Cntl 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Treat 2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Tennile Cr	.99	1	1706030503000	B	NB	5.20	1.13	31.67	NSPR
Tennile Cr	.99	2	1706030503000	B	NB	3.95	0.70	23.25	NSPR
Clearwater R, Mainstem									
Eldorado Cr	.99	Six Bit	1706030603700	B	NB	3.60	0.00	35.96	NSPR
Mission Cr	.99	1	1706030608400	B	WA	0.47	0.47	4.68	NSPR
Mission Cr	.99	2	1706030608400	B	WA	1.63	0.00	8.15	NSPR

Appendix C. Table 1. Evaluation, other, and corridor section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacities for all sites sampled in 1997.

Stream Name	Strata	Section	EPA Reach No.	SALMON RIVER DRAINAGE			Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Class
				Steelhead Class	Steelhead W vs N A vs B	Age-1+ Density No/100m ²					
Salmon River Canyon (7b)											
Crooked Cr	.99	1	1706020700000	C	WA	1.45	0.34	**	WSPR	0.00	**
Crooked Cr	.99	2	1706020700000	B	WA	0.93	0.41	**	WSPR	0.00	**
Little Salmon River (20)											
Rapid R	Adv W Fk	4	1706021000400	B	WA	1.24	1.24	12.39	NSUM	0.00	0.00
Rapid R	Adv W Fk	Cora Cliff	1706021000400	B	WA	0.61	1.02	8.17	NSUM	0.00	1
Rapid R	Adv W Fk	Paradise	1706021000400	B	WA	0.11	0.11	1.07	NSUM	0.00	1
Rapid R	Blw W Fk	Cliff Hang	1706021000200	B	WA	1.19	0.96	10.75	NSUM	0.07	0.17
Lemhi River (18)											
Big Springs Cr	1	BSC-1	1706020408300	C	NA	0.00	0.00	0.00	NSPR	1.02	0.94
Big Springs Cr	1	MI MRK 93	1706020408300	C	NA	10.23	0.43	53.29	NSPR	0.00	1
Big Springs Cr	1	Cow Sign	1706020408300	C	NA	1.42	1.42	14.25	NSPR	0.00	1
Big Springs Cr	1	BSC-1 Up	1706020408300	C	NA	0.00	1.12	5.59	NSPR	0.00	1
Big Springs Cr	1	BSC Bridge	1706020408300	C	NA	0.00	0.85	4.23	NSPR	0.00	1
Big Springs Cr	1	BSC 6 Up	1706020408300	C	NA	2.06	0.77	14.15	NSPR	0.00	1
Big Springs Cr	1	BSC 5	1706020408300	C	NA	2.79	1.11	19.51	NSPR	0.00	1
Big Springs Cr	1	4a Upper	1706020408300	C	NA	0.00	0.00	0.00	NSPR	0.37	0.34
Big Springs Cr	1	3-BSC	1706020408300	C	NA	0.66	0.88	7.72	NSPR	0.00	1
Big Springs Cr	1	3 Upper	1706020408300	C	NA	0.74	0.00	3.68	NSPR	0.00	1
Big Springs Cr	1	BSC-5 Uptel	1706020408300	C	NA	0.00	0.00	0.00	NSPR	0.00	1
Lemhi R	1	Leadore	1706020403700	C	NA	0.00	0.00	0.00	NSPR	0.34	0.32
Lemhi R	1	Power Lane	1706020403401	C	NA	2.04	3.06	25.49	NSPR	1.91	1.77
Lemhi R	1	L-59	1706020403700	C	NA	0.00	0.16	0.78	NSPR	0.00	1
Lemhi R	1	Darwin	1706020403700	C	NA	1.02	0.81	9.15	NSPR	1.83	1.69
Lemhi R	1	Bs-6	1706020403700	C	NA	2.71	1.16	19.35	NSPR	0.19	0.18
Lemhi R	1	Big Spr Cr	1706020403700	C	NA	0.44	0.00	2.22	NSPR	0.00	1
Lemhi R	1	13 Beyeler	1706020403700	C	NA	0.11	0.55	3.29	NSPR	0.00	1
Lemhi R	2	#8 L-50	1706020403700	C	NA	0.56	0.56	5.63	NSPR	0.00	1
Lemhi R	2	#6	1706020403700	C	NA	0.41	0.00	2.05	NSPR	0.82	0.76
Lemhi R	2	#5 Mckin B	1706020403700	C	NA	0.00	0.00	0.00	NSPR	1.57	1.46
Lemhi R	2	#4 Mckin A	1706020403700	C	NA	0.00	0.00	0.00	NSPR	0.07	0.99
Lemhi R	2	#2 "Merc"	1706020403700	C	NA	0.61	0.00	**	NSPR	0.00	1
Lemhi R	2	#10 J-54	1706020403700	C	NA	0.20	0.50	3.47	NSPR	0.50	0.46
Lemhi R	2	3 Shiner	1706020403700	C	NA	0.00	0.00	0.00	NSPR	0.46	0.43
Lemhi R	2	#1 Weir	1706020403700	C	NA	0.12	0.12	0.83	NSPR	0.00	1
Lemhi R	2	#9	1706020403700	C	NA	0.12	0.12	0.12	NSPR	0.12	0.11
Mainstem Clearwater River (6)											
Eldorado Cr	.99	Transect 8	1706030603700	C	NB	2.02	0.00	20.19	NSPR	0.00	0.00
Eldorado Cr	.99	Transect 13	1706030603700	C	NB	0.30	0.00	2.95	NSPR	0.00	2
Eldorado Cr	.99	Transect 3	1706030603700	B	NB	1.65	0.00	16.48	NSPR	0.00	2
Eldorado Cr	.99	Transect 5	1706030603700	C	NB	5.04	2.52	75.66	NSPR	0.84	1.09
Eldorado Cr	.99	Transect 7	1706030603700	C	NB	1.50	0.30	18.00	NSPR	0.60	0.78
Lolo Cr	.99	Ds Weir	1706030603900	C	NB	0.18	0.22	2.88	NSPR	0.27	1

Appendix C, Table 1. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Chinook Class W vs N	Chinook Spr vs Sum
Lolo Cr	.99	Transect 4	1706030603800	B	NB	0.30	0.00	2.12	NSPR
Lolo Cr	.99	Transect 6	1706030603800	C	NB	0.55	0.00	3.96	NSPR
Lolo Cr	.99	Transect 8	1706030603800	C	NB	0.00	0.00	0.00	NSPR
Lolo Cr	.99	Transect 9	1706030603800	C	NB	0.00	0.00	0.12	NSPR
Pottatch R	.99	Kendrick	1706030605601	B	WA	1.13	0.38	25.18	NSPR
Pottatch R, E Fk	.99	1	1706030605700	B	WA	0.00	0.00	0.00	NSPR
Pottatch R, E Fk	.99	2	1706030605700	C	WA	0.00	0.00	0.00	NSPR
Pottatch R, E Fk	.99	3	1706030605700	C	WA	2.19	2.63	48.26	NSPR
Clearwater River, M. Fk. (6a)									
Clear Cr	.99	Ring Ranch	1706030400200	C	NB	1.07	0.21	**	NSPR
Clear Cr	.99	McClean	1706030400200	B	NB	1.46	0.73	**	NSPR
Clear Cr	.99	Y-In Road	1706030400200	C	NB	3.83	0.29	**	NSPR
Clear Cr	.99	Weir	1706030400200	B	NB	0.17	0.50	**	NSPR
Clear Cr	.99	Wagon wheel	1706030400200	B	NB	1.73	1.04	**	NSPR
Clear Cr	.99	Thomas Ranch	1706030400200	C	NB	3.51	0.64	**	NSPR
Clear Cr	.99	Powerline	1706030400200	C	NB	1.34	0.33	**	NSPR
Clear Cr	.99	Olincouley	1706030400200	B	NB	0.36	0.00	**	NSPR
Clear Cr	.99	44c	1706030400200	B	NB	0.86	0.43	**	NSPR
Clear Cr	.99	Intake	1706030400200	C	NB	0.00	0.00	**	NSPR
Clear Cr	.99	1mimbawir	1706030400200	C	NB	0.00	0.00	**	NSPR
Clear Cr	.99	Barnes	1706030400200	C	NB	1.18	0.39	**	NSPR
Clear Cr	.99	Deliverance	1706030400200	B	NB	0.98	0.00	**	NSPR
Clear Cr	.99	Usbridge#1	1706030400200	B	NB	2.38	2.78	**	NSPR
Clear Cr	.99	End Of Rd	1706030400200	B	NB	0.96	0.00	**	NSPR
Clear Cr	.99	F.Loughran	1706030400200	C	NB	0.31	0.62	**	NSPR
Clear Cr	.99	Hazlegrey	1706030400200	B	NB	0.91	0.91	**	NSPR
Clear Cr	.99	.5wagonwhe	1706030400200	B	NB	0.94	0.71	**	NSPR
South Fork Clearwater River (6b)									
American R	1	1.25U	1706030504100	C	NB	0.63	0.63	9.01	NSPR
American R	1	1.75U	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	1	0.75U	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	3	Stop Sign	1706030504100	C	NB	0.00	0.00	0.00	NSPR
John Day Cr	.99	1	1706020902400	B	WA	10.36	3.45	98.69	WSPR
John Day Cr	.99	2	1706020902400	B	WA	11.67	2.12	98.53	WSPR
Culvert	5	5	1706030504800	B	NB	2.74	0.69	24.51	NSPR
Meadow Cr	.99	1	1706030501700	B	NB	0.00	0.00	0.00	NSPR
Moore's Cr	.99	2	1706030501700	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	1	Beaver Cr	1706030504300	C	NB	1.71	0.00	12.23	NSPR
Newsome Cr	1	Singleeeg	1706030504300	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	1	Bear Cr Rd	1706030504300	C	NB	1.23	0.20	10.23	NSPR
Newsome Cr	1	Bear Cr	1706030504300	C	NB	1.71	0.00	12.23	NSPR
Newsome Cr	1	Upper Sett Pond	1706030504300	C	NB	4.75	0.59	38.16	NSPR
Newsome Cr	1	Trans 2.5	1706030504300	C	NB	0.12	0.00	0.88	NSPR
New USFW/S	1A	1A	1706030507100	B	NB	4.40	3.30	38.48	NSPR
Relief Cr	1	1B	1706030507100	B	NB	2.57	46.33	244.53	NSPR
Lochsa R (22)									
Lochsa R	.99	L3	1706030301301	B	WB	0.00	0.04	0.28	NSPR
Lochsa R	.99	L2	1706030300200	B	WB	0.00	0.00	0.00	NSPR

Appendix C. Table 1. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²
Papoose Cr	.99	6	1706030307100	B	WB	4.62	0.00	46.19	NSPR
Papoose Cr	.99	8	1706030307100	B	WB	1.65	1.10	27.56	NSPR
Papoose Cr	.99	6.5	1706030307100	B	WB	7.71	2.86	105.69	NSPR
Papoose Cr	.99	5	1706030307100	C	WB	5.65	1.99	76.44	NSPR
Papoose Cr	.99	4	1706030307100	C	WB	1.91	0.38	22.90	NSPR
Papoose Cr	.99	3	1706030307100	B	WB	4.25	1.89	61.41	NSPR
Papoose Cr	.99	2	1706030307100	B	WB	2.61	0.00	26.14	NSPR
Papoose Cr	.99	7	1706030307100	C	WB	5.30	1.06	63.64	NSPR
Pete King Cr	.99	Big Boulder	1706030305800	B	WB	4.93	0.70	56.30	NSPR
Pete King Cr	.99	Nut Creek	1706030305800	B	WB	1.03	0.51	15.43	NSPR
Pete King Cr	.99	New Slide	1706030305800	B	WB	2.95	2.21	51.58	NSPR
Pete King Cr	.99	Road End	1706030305800	B	WB	2.81	0.80	36.15	NSPR
Pete King Cr	.99	Last Slide	1706030305800	B	WB	3.86	0.77	46.32	NSPR
Pete King Cr	.99	Culvert	1706030305800	B	WB	0.00	0.89	8.92	NSPR
Pete King Cr	.99	Abovehole .5mi mouth	1706030305800	B	WB	0.92	1.37	22.88	NSPR
Pete King Cr	.99	Fall	1706030305800	B	WB	0.88	0.44	13.18	NSPR
Pete King Cr	.99	Jungle	1706030305800	B	WB	5.78	2.57	83.50	NSPR
Squaw Cr	.99	1	1706030304900	B	WB	1.93	1.28	32.12	NSPR
Squaw Cr	.99	10	1706030304900	B	WB	2.01	2.01	28.68	NSPR
Squaw Cr	.99	11	1706030304900	B	WB	1.45	1.74	22.74	NSPR
Squaw Cr	.99	2	1706030304900	B	WB	0.41	0.83	8.84	NSPR
Squaw Cr	.99	3	1706030304900	B	WB	0.58	0.77	9.60	NSPR
Squaw Cr	.99	4	1706030304900	B	WB	0.39	0.39	5.51	NSPR
Squaw Cr	.99	5	1706030304900	C	WB	1.07	0.36	10.17	NSPR
Squaw Cr	.99	6	1706030304900	B	WB	0.46	0.46	6.52	NSPR
Squaw Cr	.99	7	1706030304900	B	WB	0.52	0.00	3.74	NSPR
Squaw Cr	.99	8	1706030304900	B	WB	0.00	0.72	5.16	NSPR
Squaw Cr	.99	9	1706030304900	B	WB	0.00	0.65	4.64	NSPR
White Sand Cr	.99	1	1706030301900	B	WB	0.15	0.06	3.01	NSPR
								**	0.03
									1

(**These Sites Do Not Have Ratings For Carrying Capacity)

Appendix C. Table 2. Evaluation, other, and corridor section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacities for all sites sampled in 1998.

Stream Name	Strata	Section	EPA Reach No.	SALMON RIVER DRAINAGE				Steelhead Percent Carrying Capacity	Chinook Class W vs N	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
				Steelhead Class A vs B	Steelhead W vs N	Channel Type	Steelhead Age-1+ Density No/100m ²					
Salmon River Canyon (7b)				B	WA	WB	2.57	0.95	**	WSPR	0.00	**
Crooked Cr	-99	2	1706020700000	C	WA	WB	3.06	1.93	**	WSPR	1.45	**
Crooked Cr	-99	1	1706020700000							WSPR	0.00	1
Salmon River, M. Fk. (7g)	2	Rockslide Trailx	1706020502100	B	WB	0.00	0.00	0.00	WSPR	2.76	2.55	1
Sulphur Cr	2		1706020502100	C	WB	0.35	0.00	2.50	WSPR	0.00	0.00	1
Salmon River, S. Fk. (7f)				B	WB	WB	2.95	0.65	**	WSUM	36.51	**
Burnt Log Cr	-99	Buck	1706020804800	B	WB	WB	3.09	1.03	**	WSUM	37.39	**
Burnt Log Cr	-99	Mouth	1706020804800	B	WB	WB	0.13	0.00	0.93	WSUM	0.26	0.34
Seceesh R	-99	6	1706020801600	C	WB	WB	0.00	0.00	0.00	WSUM	0.28	0.36
Seceesh R	-99	1	1706020801600							WSUM		1
Little Salmon River (20)				B	WA	WA	2.00	1.40	11.02	NSUM	0.91	2.06
ABV W FK	4	1706021000400	B	WA	WA	WA	0.80	0.00	0.00	NSUM	0.80	1.82
ABV W FK		1706021000400	B	WA	WA	WA	0.00	0.00	0.00	NSUM	0.00	0.00
ABV W FK		1706021000400	B	WA	WA	WA	2.39	0.92	16.56	NSUM	0.23	0.53
BLW W FK		1706021000200	B							NSPR	0.39	1
Lemhi River (18)				C	NA	NA	0.39	0.39	3.89	NSPR	0.00	0.36
Big Springs Cr	1	BSC Bridge	1706020408300	C	NA	NA	12.86	6.05	94.58	NSPR	0.00	1
Big Springs Cr	1	Cow Sign	1706020408300	C	NA	NA				NSPR	0.00	
CLEARWATER RIVER DRAINAGE												
Selway River (21)				B	WB	WB	4.32	1.18	27.48	NSPR	0.00	0.00
Marten Cr	-99	1	1706030201200	B	WB	WB	0.01	0.00	0.05	NSPR	0.00	4
Lochsa River (22)				B	WB	WB	0.05	0.09	1.04	NSPR	0.76	3
Lochsa R	-99	L2	1706030300200	B	WB	WB	8.44	1.81	102.50	NSPR	59.69	135.67
Papoose Cr	-99	L3	170603031301	C	WB	WB	4.05	1.27	53.18	NSPR	69.64	158.27
Papoose Cr	-99	4	1706030307100	B	WB	WB	4.64	2.22	68.63	NSPR	47.24	107.36
Papoose Cr	-99	1	1706030307100	C	WB	WB	6.74	1.68	84.24	NSPR	56.16	127.64
Papoose Cr	-99	5	1706030307100	B	WB	WB	6.08	5.68	117.60	NSPR	94.48	214.74
Papoose Cr	-99	6	1706030307100	C	WB	WB	10.19	3.40	135.82	NSPR	51.61	117.30
Papoose Cr	-99	7	1706030307100	B	WB	WB	5.03	0.48	55.14	NSPR	68.57	155.84
Papoose Cr	-99	8	1706030307100	B	WB	WB	0.50	1.51	20.17	NSPR	27.22	61.87
Abovezhole	2		1706030307100	B	WB	WB	65.88	0.00	658.83	NSPR	6.53	14.84
Big Boulder	-99		1706030305800	B	WB	WB	2.90	1.45	43.49	NSPR	42.04	95.56
Last Slide	-99		1706030305800	B	WB	WB	1.39	1.04	24.36	NSPR	0.35	0.79
Road End	-99		1706030305800	B	WB	WB	3.29	0.24	25.20	NSPR	30.34	68.94
Pete King Cr	-99		1706030304900	C	WB	WB	2.66	0.24	20.72	NSPR	7.25	16.48
Pete King Cr	-99		1706030304900	B	WB	WB	2.72	5.44	58.27	NSPR	3.63	4
Squaw Cr	-99	9	1706030304900	B						NSPR		
Squaw Cr	-99	8	1706030304900	B						NSPR		

Appendix C, Table 2. (Continued.)

CLEARWATER RIVER DRAINAGE												
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
Squaw Cr	-99	7	1706030304900	B	WB	1.04	2.08	22.34	NSPR	7.82	17.77	4
Squaw Cr	-99	5	1706030304900	C	WB	5.21	0.00	37.18	NSPR	21.98	49.95	4
Squaw Cr	-99	3	1706030304900	B	WB	3.28	2.19	39.05	NSPR	7.11	16.15	4
Squaw Cr	-99	2	1706030304900	B	WB	10.12	1.64	83.99	NSPR	15.31	34.80	4
Squaw Cr	-99	11	1706030304900	B	WB	0.41	0.41	5.91	NSPR	0.00	0.00	4
Squaw Cr	-99	10	1706030304900	B	WB	0.00	0.39	2.82	NSPR	7.10	16.14	4
Squaw Cr	-99	1	1706030304900	B	WB	1.56	0.52	14.83	NSPR	11.25	25.56	4
Squaw Cr	-99	6	1706030304900	B	WB	1.38	0.00	9.96	NSPR	72.45	164.67	4
White Sand Cr	-99	1	1706030301900	B	WB	0.28	0.52	**	NSPR	0.84	**	1
Clearwater River (6)												
Eldorado Cr	-99	Transect 4	1706030603700	B	NB	1.68	0.21	18.95	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 10	1706030603700	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 9	1706030603700	C	NB	1.31	0.00	13.11	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 8	1706030603700	C	NB	0.78	0.78	15.54	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 7	1706030603700	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 2	1706030603700	B	NB	1.45	0.96	24.09	NSPR	3.61	4.69	2
Eldorado Cr	-99	Transect 13	1706030603700	C	NB	0.24	0.00	2.44	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 12	1706030603700	B	NB	2.51	1.51	40.15	NSPR	0.00	0.00	2
Eldorado Cr	-99	Transect 3	1706030603700	B	NB	2.09	0.00	20.85	NSPR	0.00	0.00	2
Lolo Cr	-99	Transect 6	1706030603800	C	NB	0.91	0.14	7.47	NSPR	28.24	**	1
Lolo Cr	-99	Transect 8	1706030603800	C	NB	0.83	0.21	7.37	NSPR	74.67	**	1
Lolo Cr	-99	Ds Weir	1706030603900	C	NB	0.75	0.58	9.51	NSPR	40.46	52.55	1
Lolo Cr	-99	Transect 9	1706030603800	C	NB	0.00	0.00	0.00	NSPR	40.26	**	1
Pottatch R. E Fk	-99	1	1706030605700	B	WA	0.28	0.00	2.81	NSPR	0.00	0.00	1
Pottatch R. E Fk	-99	2	1706030605700	C	WA	5.34	0.00	53.38	NSPR	0.00	0.00	1
Pottatch R. E Fk	-99	3	1706030605700	C	WA	3.87	0.00	38.70	NSPR	0.00	0.00	1
Clearwater R. M. Fk (6a)												
Clear Cr	-99	Y-In Road	1706030400200	C	NB	1.83	0.00	**	NSPR	5.08	**	1
Clear Cr	-99	1miabweir	1706030400200	C	NB	0.00	1.15	**	NSPR	6.02	**	1
Clear Cr	-99	Powerline	1706030400200	C	NB	3.15	0.79	**	NSPR	14.96	**	1
Clear Cr	-99	Ring Ranch	1706030400200	C	NB	1.16	0.39	**	NSPR	1.36	**	1
Clear Cr	-99	Wagon wheel	1706030400200	B	NB	2.48	1.55	**	NSPR	8.69	**	1
Clear Cr, S Fk	-99	Aby mouth	1706030400200	B	NB	3.85	0.00	**	NSPR	9.64	**	1
Clearwater River, S. Fk (6b)												
American R	1	1.25u	1706030504100	C	NB	1.07	0.36	10.15	NSPR	40.48	52.58	2
American R	1	Gravel Pit	1706030504102	C	NB	0.69	0.00	**	NSPR	53.48	**	2
American R	1	0.75u	1706030504100	C	NB	0.00	0.00	0.00	NSPR	19.49	25.32	2
American R	2	1/8 m above fk	1706030504102	NB	0.61	0.00	4.35	NSPR	76.15	**		
American R	2	Aby Cattle Grd	1706030504102	NB	1.14	0.00	**	NSPR	41.23	**		
American R	2	Cross River Lwr	1706030504100	NB	0.20	0.00	**	NSPR	55.82	**		
American R	2	Flat Iron Ridge	1706030504100	NB	1.38	0.00	**	NSPR	51.76	**		
American R	2	Guntleys	1706030504102	NB	1.78	0.00	12.73	NSPR	91.77	119.19		
American R	2	Stair To Heaven	1706030504100	NB	0.43	0.21	**	NSPR	36.35	**		
American R	2	Stump Lane	1706030504100	NB	3.02	0.50	**	NSPR	64.39	**		
American R	2	.5beboxsin	1706030504101	NB	2.77	0.43	22.85	NSPR	85.93	111.60		
American R	3	Buffalo Pit	1706030504100	NB	0.14	0.00	**	NSPR	23.57	**		
American R	3	Kirks Fork	1706030504101	NB	1.16	0.00	8.31	NSPR	46.90	60.91		
American R	3	Stop Sign	1706030504100	NB	0.00	0.00	0.00	NSPR	55.68	72.32		

Appendix C, Table 2. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Chinook Class W vs N A vs Sum	Chinook Age-0+ Density No/100m ²
Five Mile Cr	1	1a	1706030503301	B	NB	1.74	0.87	18.64	NSPR
Five Mile Cr	1	1b	1706030503301	B	NB	0.00	0.00	0.00	NSPR
John Day Cr	-99	1	1706020902400	B	WA	3.85	2.56	45.79	WSPR
John Day Cr	-99	2	1706020902400	B	WA	9.46	2.01	81.91	WSPR
Moores Cr	-99	1	1706030501700	B	NB	0.00	0.00	0.00	NSPR
Moores Cr	-99	2	1706030501700	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	1	Beaver Cr	1706030504300	C	NB	2.02	2.52	32.40	NSPR
Newsome Cr	1	Singleegg	1706030504300	C	NB	1.18	0.71	13.47	NSPR
Newsome Cr	1	Upper Selt Pond	1706030504300	C	NB	4.67	3.50	58.39	NSPR
Newsome Cr	1	Trans 2.5	1706030504300	C	NB	0.00	0.20	1.43	NSPR
Red R	1	Upper Shissler Cr	1706030503800	NB	1.62	0.00	11.56	NSPR	0.00
Red R	1	Goosebox	1706030503800	NB	0.00	0.00	0.00	NSPR	19.27
Red R	1	Csup1	1706030503800	NB	1.08	0.00	7.73	NSPR	42.36
Red R	2	Csup5	1706030503800	NB	1.22	0.00	8.69	NSPR	4.87
Red R	2	Csup3	1706030503800	NB	0.26	0.00	1.87	NSPR	20.43
Red R	3	Old Bridge	1706030503600	C	NB	0.08	0.00	0.58	NSPR
Red R	3	Blw Weir	1706030503600	C	NB	0.18	0.00	1.30	NSPR
Red R	3	1150	1706030503600	C	NB	0.60	0.00	4.27	NSPR
Red R	4	Bldr Pool	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Log Island	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Gibler 1	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp4	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp3	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp1	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Gibler 3	1706030503600	C	NB	0.00	0.21	2.09	NSPR
Red R	5	Johnson Up	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	JohnsonDwn	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	6	Csup 4	1706030503500	C	NB	0.36	0.18	5.43	NSPR
Red R	6	Csup 1	1706030503500	C	NB	0.00	0.00	0.00	NSPR
Relief Cr	1	1a	1706030507100	C	NB	0.24	0.00	1.20	NSPR
Relief Cr	1	1b	1706030507100	B	NB	0.00	0.90	4.48	NSPR
Relief Cr	2	2b	1706030507100	C	NB	0.00	0.00	0.00	NSPR
Relief Cr	2	2a	1706030507100	C	NB	0.38	0.00	1.90	NSPR

(**These Sites Do Not Have Ratings For Carrying Capacity)

Appendix C. Table 3. Evaluation, other, and corridor section names, channel types (B or C), steelhead trout classification (wild or natural, A- or B-run), chinook salmon classification (wild or natural, spring or summer), densities, and percent carrying capacities for all sites sampled in 1999.

Stream Name	Strata	Section	EPA Reach No.	SALMON RIVER DRAINAGE			Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Priority Rating
				Steelhead Class W vs N A vs B	Channel Type	WA						
Salmon River Canyon (7b)			170602070000	C	WA	5.07	1.60	**	WSPR	1.20	**	1
Crooked Cr												
Rush Cr	.99	1	11	1706020604100	B	WB	0.35	0.00	1.74	WSPR	0.00	4
Rush Cr	.99	12	12	1706020604100	B	WB	0.79	2.37	15.78	WSPR	0.00	4
Salmon R, M Fk	1	Rapid-R		1706020501600	B	WB				WSPR		3
Salmon R, M Fk	1	Sheepeater		1706020501800	B	WB				WSPR		3
Salmon R, M Fk	1	Indian		1706020501000	B	WB				WSPR		3
Salmon R, M Fk	1	Greyhound		1706020501700	B	WB				WSPR		3
Salmon R, M Fk	1	Girdhole		1706020502000	B	WB				WSPR		3
Salmon R, M Fk	1	Elkhorn		1706020501800	B	WB				WSPR		3
Salmon R, M Fk	1	Boundary		1706020502200	B	WB				WSPR		3
Salmon R, M Fk	1	Velvet		1706020502000	B	WB				WSPR		3
Salmon R, M Fk	2	Tappanrun		1706020605000	B	WB				WSPR		3
Salmon R, M Fk	2	Whiteyox		1706020501000	B	WB				WSPR		3
Salmon R, M Fk	2	Tappanpool		1706020605000	B	WB				WSPR		3
Salmon R, M Fk	2	Pungo		1706020500800	B	WB				WSPR		3
Salmon R, M Fk	2	Marble		1706020500800	B	WB				WSPR		3
Salmon R, M Fk	2	Ljackass		1706020500200	B	WB				WSPR		3
Salmon R, M Fk	2	Hosprun		1706020605000	B	WB				WSPR		3
Salmon R, M Fk	2	Hospli		1706020605000	B	WB				WSPR		3
Salmon R, M Fk	2	Cougar		1706020500200	B	WB				WSPR		3
Salmon R, M Fk	2	Ski jump		1706020502000	B	WB				WSPR		3
Salmon R, M Fk	3	Airstrip		1706020604700	B	WB				WSPR		3
Salmon R, M Fk	3	Flying-B		1706020604900	B	WB				WSPR		3
Salmon R, M Fk	3	Survey		1706020604500	B	WB				WSPR		3
Salmon R, M Fk	4	Big-Cr-Br		1706020604400	B	WB				WSPR		3
Salmon R, M Fk	4	Goat pool		1706020602000	B	WB				WSPR		3
Salmon R, M Fk	4	Goat run		1706020602000	B	WB				WSPR		3
Salmon R, M Fk	4	Liouzel		1706020603000	B	WB				WSPR		3
Salmon R, M Fk	4	Lovebar		1706020600600	B	WB				WSPR		3
Salmon R, M Fk	4	Otterbar		170602060300	B	WB				WSPR		3
Salmon R, M Fk	4	Ship Island		170602060300	B	WB				WSPR		3
Salmon R, M Fk	.99	Rock Is		170602050200	B	WB				WSPR		3
Salmon River, S. Fk. (7f)												
Burnt Log Cr	.99	Buck		1706020804300	B	WB	1.33	0.13	**	WSUM	3.47	**
Burnt Log Cr	.99	Mouth		1706020804800	B	WB	0.11	0.11	**	WSUM	3.15	**
Seesesh R	.99	1		1706020801600	C	WB	0.00	0.00	0.00	WSUM	7.17	1
Seesesh R	.99	4		1706020801600	C	WB	0.00	0.00	0.00	WSUM	0.82	1
Seesesh R	.99	6		1706020801600	B	WB	0.00	0.21	1.47	WSUM	1.64	1
Little Salmon River (20)												
Rapid R	Abv W Fk	4	1706021000400	B	WA	3.11	1.11	21.11	NSUM	0.00	1	1
Rapid R	Abv W Fk		1706021000400	B	WA	0.00	0.15	0.77	NSUM	0.00	1	1

Appendix C, Table 3. (Continued.)

SALMON RIVER DRAINAGE										CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section		EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N A vs Sum	Chinook Age-0+ Density No/100m ²	Chinook Percent Carrying Capacity	Chinook Priority Rating						
Rapid R	Abv W Fk	Cora Cliff	Cliff Hang	1706021000400	B	WA	1.02	0.82	9.19	N SUM	0.00	0.00	1						
Rapid R	Blw W Fk			1706021000200	B	WA	2.21	2.09	21.47	N SUM	0.35	0.79	1						
Lemhi R. (18)																			
Big Springs Cr.	1	Cow Sign	1706020408300	C	NA	2.56	4.89	37.25	NSPR	0.00	0.00	1							
Big Springs Cr.	1	BSC Bridge	1706020408300	C	NA	0.97	1.69	13.29	NSPR	0.00	0.00	1							
Lemhi R.	1	13 Beyeler	1706020403700	C	NA	2.98	0.82	19.03	NSPR	4.94	4.57	1							
Lemhi R.	2	#5 McKin B	1706020403700	C	NA	2.94	1.81	23.74	NSPR	1.24	1.15	1							
Selway River (21)																			
Marten Cr	99	1	Bad Luck Cr	1706030106800	B	WB	3.24	3.54	33.90	NSPR	0.00	**	4						
Selway R	99	2	Running Cr	1706030101300	B	WB	0.00	0.29	**	NSPR	0.04	**	3						
Selway R	99	2	Three Links Cr	1706030203900	B	WB	0.00	0.03	**	NSPR	0.12	**	3						
Lochsa River (22)																			
Papoose Cr	99	7	1706030307100	C	WB	4.85	0.00	48.48	NSPR	21.82	49.58	4							
Papoose Cr	99	8	1706030307100	B	WB	6.69	0.00	66.90	NSPR	1.43	3.26	4							
Papoose Cr	99	6	1706030307100	B	WB	3.09	0.00	30.90	NSPR	20.47	46.53	4							
Papoose Cr	99	5	1706030307100	C	WB	3.59	0.00	35.85	NSPR	10.46	23.77	4							
Papoose Cr	99	4	1706030307100	C	WB	0.32	0.00	3.20	NSPR	5.76	13.09	4							
Papoose Cr	99	2	1706030307100	B	WB	0.74	0.12	8.64	NSPR	21.23	48.24	4							
Papoose Cr	99	1	1706030307100	B	WB	5.73	0.00	57.31	NSPR	7.00	15.92	4							
Pete King Cr	99	1	Abovezehole	1706030305800	B	WB	3.92	0.00	39.25	NSPR	1.96	4.46	2						
Pete King Cr	99	2	Big Boulder	1706030305800	B	WB	15.38	4.40	197.80	NSPR	2.93	6.66	2						
Pete King Cr	99	2	Last Slide	1706030305800	B	WB	3.70	0.00	37.02	NSPR	3.70	8.41	2						
Pete King Cr	99	2	Road End	1706030305800	B	WB	3.59	0.00	71.89	NSPR	0.45	1.02	2						
Pete King Cr	99	2	5mi mouth	1706030305800	B	WB	1.99	1.59	35.81	NSPR	1.19	2.71	2						
Squaw Cr	99	2	2	1706030305800	B	WB	3.44	0.36	27.18	NSPR	0.54	1.24	4						
Squaw Cr	99	9	9	1706030304900	B	WB	4.85	2.91	55.40	NSPR	0.32	0.73	4						
Squaw Cr	99	8	8	1706030304900	B	WB	2.20	0.73	20.98	NSPR	0.00	4							
Squaw Cr	99	7	7	1706030304900	B	WB	3.50	0.00	25.01	NSPR	1.27	2.89	4						
Squaw Cr	99	6	6	1706030304900	B	WB	4.57	0.25	34.49	NSPR	0.25	0.58	4						
Squaw Cr	99	5	5	1706030304900	C	WB	5.78	0.96	48.13	NSPR	8.18	18.60	4						
Squaw Cr	99	3	3	1706030304900	B	WB	3.55	0.25	27.14	NSPR	0.25	0.58	4						
Squaw Cr	99	11	11	1706030304900	B	WB	0.25	0.32	11.55	NSPR	0.00	0.00	4						
Squaw Cr	99	10	10	1706030304900	B	WB	5.87	1.63	53.59	NSPR	0.65	1.48	4						
Squaw Cr	99	1	1	1706030304900	B	WB	4.07	0.00	29.08	NSPR	0.44	0.99	4						
Squaw Cr	99	4	4	1706030304900	C	WB	2.79	0.80	25.86	NSPR	2.99	6.80	4						
Clearwater River (6)																			
Eldorado Cr	-99	Transect 4	1706030603700	B	NB	1.18	1.37	25.53	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 9	1706030603700	C	NB	0.51	0.51	10.21	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 5	1706030603700	C	NB	0.72	0.72	7.22	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 7	1706030603700	C	NB	0.53	0.36	8.91	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 2	1706030603700	B	NB	2.79	0.47	32.55	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 8	1706030603700	C	NB	0.38	0.38	7.52	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 13	1706030603700	C	NB	0.00	0.00	0.00	NSPR	0.00	0.00	2							
Eldorado Cr	-99	Transect 12	1706030603700	B	NB	0.00	0.00	0.00	NSPR	0.00	0.00	2							

Appendix C. Table 3. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Steelhead Percent Carrying Capacity	Chinook Class W vs N Spp vs Sum
Eldorado Cr	.99	Transsect 10	1706030603700	C	NB	0.00	0.00	0.00	NSPR
Eldorado Cr	.99	Transsect 3	1706030603700	B	NB	1.10	0.00	10.96	NSPR
Lolo Cr	.99	Transsect 9	1706030603800	C	NB	0.20	0.00	1.40	NSPR
Lolo Cr	.99	Transsect 8	1706030603800	C	NB	0.00	0.00	12.78	NSPR
Lolo Cr	.99	Transsect 6	1706030603800	C	NB	1.70	0.09	171.54	NSPR
Lolo Cr	.99	Ds Weir	1706030603900	C	NB	0.00	0.14	0.97	NSPR
Lolo Cr	.99	Transsect 4	1706030603800	B	NB	0.00	0.26	1.84	NSPR
Potlatch R	.99	Kendrick	1706030605601	B	WA	0.00	0.00	0.00	NSPR
Potlatch R, E Fk	.99	3	1706030605700	C	WA	4.78	0.00	47.78	NSPR
Potlatch R, E Fk	.99	1	1706030605700	B	WA	0.00	0.00	0.00	NSPR
Potlatch R, E Fk	.99	2	1706030605700	C	WA	2.14	0.54	26.81	NSPR
Clearwater R., M. Fk. (6A)									
Clear Cr	.99	1miabweir	1706030400200	C	NB	0.00	28.54	**	NSPR
Clear Cr	.99	Powerline	1706030400200	C	NB	0.46	0.92	**	NSPR
Clear Cr	.99	Ring Ranch	1706030400200	C	NB	0.00	**	**	NSPR
Clear Cr	.99	Wagon Wheel	1706030400200	B	NB	8.13	0.77	**	NSPR
Clear Cr	.99	Y-In Road	1706030400200	C	NB	0.00	**	**	NSPR
Clear Cr, S Fk	.99	Aby mouth	1706030400200	B	NB	2.33	0.00	**	NSPR
Clearwater R., S. Fk. (6B)									
American R	1	0.75u	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	1	Upr Mid Meadow	1706030504102	C	NB	0.00	0.00	**	NSPR
American R	1	Gravel Pit	1706030504102	NB	0.00	0.00	**	**	NSPR
American R	1	2.65u	1706030504102	NB	0.30	0.00	**	**	NSPR
American R	1	1.25u	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	1	2.25u	1706030504102	C	NB	0.00	0.00	**	NSPR
American R	1	1.75u	1706030504100	C	NB	0.00	0.00	0.00	NSPR
American R	2	Stair To Heaven	1706030504100	NB	0.20	0.00	**	**	NSPR
American R	2	Lower Gravel	1706030504100	NB	0.00	0.00	**	**	NSPR
American R	2	Guntleys	1706030504102	NB	0.00	0.00	0.00	0.00	NSPR
American R	2	Flat Iron Ridge	1706030504100	NB	0.00	0.00	**	**	NSPR
American R	2	Cross River Upr	1706030504100	NB	0.00	0.00	**	**	NSPR
American R	2	Bwn Bound/Stump	1706030504100	NB	1.54	0.00	**	**	NSPR
American R	2	Aby Cattle Grd	1706030504102	NB	0.93	0.00	**	**	NSPR
American R	2	1/8mabevfk	1706030504102	NB	0.00	0.00	0.00	0.00	NSPR
American R	2	Cross River Lwr	1706030504100	NB	0.00	0.00	**	**	NSPR
American R	3	Buffalo Pit	1706030504100	NB	0.00	0.29	**	**	NSPR
American R	3	Stop Sign	1706030504100	NB	0.00	0.34	2.46	NSPR	23.42
American R	3	Kirks Fork	1706030504101	NB	0.36	0.00	2.60	NSPR	24.57
American R	3	.5beboxsin	1706030504101	NB	0.00	0.00	0.00	0.00	NSPR
American R	3	Stock Sign	1706030504100	NB	0.00	0.71	**	**	NSPR
American R	3	1a	1706030503301	B	NB	0.00	0.00	0.00	NSPR
American R	3	1b	1706030503301	B	NB	0.00	0.00	0.00	NSPR
American R	1	Five Mile Cr	1706020902400	B	WA	1.89	0.63	17.96	WSPR
John Day Cr	.99	John Day Cr	1706020902400	B	WA	8.31	0.76	64.79	WSPR
Moore's Cr	.99	Moore's Cr	1706030501700	C	NB	2.39	0.00	11.94	NSPR
Singleeqg	2	Singleeqg	1706030504300	C	NB	7.28	0.00	36.41	NSPR
Bear Cr	1	Bear Cr	1706030504300	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	1	Upper Setl Pond	1706030504300	C	NB	1.89	0.00	13.48	NSPR
Newsome Cr	1				NB	1.16	0.00	8.27	NSPR

Appendix C. Table 3. (Continued.)

CLEARWATER RIVER DRAINAGE									
Stream Name	Strata	Section	EPA Reach No.	Channel Type	Steelhead Class W vs N A vs B	Steelhead Age-1+ Density No/100m ²	Steelhead Age-2+ Density No/100m ²	Chinook Class W vs N Spr vs Sum	Chinook Age-0+ Density No/100m ²
Newsome Cr	1	Bear Cr Rd	1706030504300	C	NB	0.93	0.00	6.64	NSPR
Newsome Cr	1	Beaver Cr	1706030504300	C	NB	0.00	0.00	0.00	NSPR
Newsome Cr	1	Cattle Grd	1706030504300	B	NB	0.00	0.00	0.00	NSPR
Newsome Cr	2.5	Trans 2.5	1706030504300	C	NB	0.33	0.00	2.33	NSPR
Red R	1	Goosebox	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	1	Upper Shissler Cr	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	1	Csup1	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	2	Csup3	1706030503800	C	NB	0.00	0.00	0.00	NSPR
Red R	2	Csup 6	1706030503800	C	NB	0.00	0.00	**	NSPR
Red R	3	1150	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	3	Blw Weir	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	3	Old Bridge	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Bldr Pool	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	4	Log Island	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp4	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp3	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp2	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Lp1	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Johnson Dwn	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Johnson Up	1706030503600	C	NB	0.07	0.00	0.65	NSPR
Red R	5	Gibler 3	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	5	Gibler 1	1706030503600	C	NB	0.00	0.00	0.00	NSPR
Red R	6	Csup 2	1706030503500	C	NB	0.15	0.00	**	NSPR
Red R	6	Csup 6	1706030503500	C	NB	0.00	0.00	**	NSPR
Red R	6	Csup 5	1706030503500	C	NB	0.00	0.00	**	NSPR
Red R	6	Csup 3	1706030503500	C	NB	0.00	0.00	**	NSPR
Red R	6	Csup 1	1706030503500	C	NB	0.00	0.00	**	NSPR
Red R	6	Csup 4	1706030503500	C	NB	0.21	0.00	2.06	NSPR
Relief Cr	1	1a	1706030507100	C	NB	0.00	0.00	0.00	NSPR
Relief Cr	1	1b	1706030507100	B	NB	0.00	0.00	0.00	NSPR
Relief Cr	2	2b	1706030507100	C	NB	0.46	2.32	NSPR	0.00
Relief Cr	2	2a	1706030507100	C	NB	0.00	0.00	0.00	NSPR

(**These Sites Do Not Have Ratings For Carrying Capacity)

Appendix D. Table 1. Biological data collection sheet for general parr monitoring.

IDFG GENERAL PARR MONITORING (SNORKELING) FIELD COLLECTION SHEET -- 2001

Stream _____ Date ____ / ____ / 01 Time _____ Recorder/Crew_____

Strata _____ AGENCY: (circle one) NPT SBT IDFG FRO ICU

Section _____ PROGRAM: (circle one) ISS / GPM / RESIDENT / OTHR _____

Method: snorkel entire / snorkel corridor / Electro-fish Monitoring Type (circle one): MONR / EVAL / OTHR

Waypoint Name_UTM 11T East North_____

H₂O Temp_C Visibility_M# Snorkelers_____ Habitat Data: Y / N

Channel Type: B / C / _____ Conductivity_uS Weather_____

Total Length_Widths _____ Avg. width _____

Amphibians (spp, life stage, number) _____

Non-Salmonid Species _____

HABITAT TYPE: (circle one) Pool Riffle Run Pocket Water Total

Trout Fry (≤2" sthd, ct)

INCH	wild STHD	Ad clipped STHD	Hatchery Catchable	CT	BK	BU	WF	
< 2								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
>12 specify								
CHIN 0								
CHIN 1					COHO 0			
CHIN ADULTS					COHO 1			
CHIN REDDS								

SH-steelhead; RBT-Rainbow; CT-Cutthroat; BK-Brook; BU-Bull Trout; WF – Whitefish; SC-Sculpin; SU- Suckers; RD-redsided shiner; DA-Dace

COMMENTS:

Appendix D. Table 2. Biological data collection sheet by habitat unit used by Idaho Supplementation Studies (ISS).

**Idaho Department of Fish and Game
ISS - SNORKEL COUNT DATA**

Stream _____ Date ____/____/____ Recorder/Crew_____
 Strata _____ Time _____ Agency: NPT SBT IFG FRO ICU
 Section _____ H2O Temp _____ Program: R2 R3 R7 PEL ISM CSUP SSUP
 Section Type: MONR CSUP SSUP EVAL Channel Type: B C OTHER _____
 Methods: ()Snorkel ()Electrofish ()Other
 EPA REACH # 17060 _____ GPS Coordinates _____

AMPHIBIAN DATA: No. Observed _____ Species I.D. _____ Description _____

Unit # _____ Habitat Type: (circle one) Pool Riffle Run Pocket Glide
 Transect Length (m) _____ Widths _____ Avg. Width _____ Sec. Area (m) _____

LENGTH STHD RESIDENT LENGTH STHD RESIDENT

<2	8
2	9
3	10
4	11
5	12
6	>12
7	SPECIFY
CHINOOK 0	CHINOOK 1

Unit # _____ Habitat Type: (circle one) Pool Riffle Run Pocket Glide
 Transect Length (m) _____ Widths _____ Avg. Width _____ Sec. Area (m) _____

LENGTH STHD RESIDENT LENGTH STHD RESIDENT

<2	8
2	9
3	10
4	11
5	12
6	>12
7	SPECIFY
CHINOOK 0	CHINOOK 1

Unit # _____ Habitat Type: (circle one) Pool Riffle Run Pocket Glide
 Transect Length (m) _____ Widths _____ Avg. Width _____ Sec. Area (m) _____

LENGTH STHD RESIDENT LENGTH STHD RESIDENT

<2	8
2	9
3	10
4	11
5	12
6	>12
7	SPECIFY
CHINOOK 0	CHINOOK 1

Chinook age 0=z; yearlings = y; Fry = F; Steelhead = S; Adipose clipped = AD; Hatchery Catchables = H
 Cutthroat = CT; Bull Trout = DV; Brook Trout = BK; Whitefish = WF; Age 0 WF = WFF; Squawfish = SQ

Appendix D. Table 3 Physical habitat data collection sheet for general parr monitoring.

Habitat: 1=Pool; 2=Run; 3=Pocket Water; 4=Riffle; 5=Backwater

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